2005 Medium Duty C Series Electrical

Overview

ORGANIZATION

The Electrical section of the 2005 Medium Duty C Series Body Builder Manual is not split between Family 2 and Family 3 trucks. The Electrical systems are common between the families. Any family specific requirements are called out in the attached documentation. This document is organized as follows:

A. Systems Operation – How it works.

B. Component Locator – Where it is.

C. Connectors & Pinouts – What it looks like, and finally,

D. Subsystem Schematics – Detailed wiring and electrical schematic information.

WHAT'S NEW FOR THE MEDIUM DUTY C SERIES

- The LG4 ECM has moved from the center of the IP to a common location with the L18 PCM and LLY ECM underhood. The LG5 ECM remains on the engine.

- What's new for the manual: The LB7 and "interim" LLY and LG4 engines used in 2004 are not required for 2005.This eliminated many schematics in the 2003 and 2004 manuals.

- The 2005 manual includes schematics for every sub-system in the vehicle. Most of these schematics are new drawings.
  New subsystems include:
  - Auxiliary Power
  - Active Transfer Case
  - Horn
  - Brakes – Hydraulic and Air
  - SIR Park Brake
  - Rear Air Suspension
  - Rear Defogger
  - Chime
  - Displays – Instrument Panel Cluster and Tell Tale Gauges
  - Wipers and Washer
  - Headlamps – Dual and Quad
  - Interior Lighting
  - Daytime Running Lamps
  - Power Windows – Regular and Crew Cab
  - Power Door Locks
  - Remote Keyless Entry
  - Power Mirrors
  - Entertainment – Radio and Speakers

- A **Schematic Description and Navigation instructions** have been added at the beginning of Section D. This document helps you understand how the schematics are organized and how to read them.

(continued on next page)

2005 Medium Duty C Series Electrical

(Overview — continued from previous page)

SPECIAL INTEREST TO UPFITTERS

Connectors have been provided to allow easy interface for upfitter equipment rather than splicing into existing harnesses. These subsystems and connectors include:

- Upfitter Provision – PTO related functions
- Trailer Wiring – Class two and three vehicles
- Body Builder Connector – exterior lighting and signaling, power, and 128k Pulse per Mile VSS
- A Ground Block located next to the Body Builder Connector for easy ground termination

Navigation

The Table of Contents and Index items are linked to the actual page. Click on the item of interest and you'll go to the corresponding page. You can return with the "previous page" arrow in the upper center of the screen. Other links embedded in the document are hi-lighted in blue.

Viewing

The size (%) control is located in the lower left corner of the screen. Click the down arrow and select "fit in window" (62%) or "actual size" (100%) for most viewing applications. You can zoom in schematic detail by selecting a larger percentage.

Printing

Specific pages can be printed out. Be careful to select a print range or "current page" or all 321 pages will try to print out.

Information provided is believed to be accurate at the time of publication. GM reserves the right to change the information at any time.

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System Operating Instructions

UF3 – Fast Idle Option – Electrical Requirements

OUTLINE

- Overview
- Engine/Transmission Variations
- Factory Installed Equipment
- Upfitter Installed Equipment
- Operation
- Appendix
    - Reprogramming the PCM / Using the Tech 2 Scan Tool – (Attachment 1)
    - Illustrations
        - IP Switch Panel (Figure 1)
        - Fast Idle Switch (Figure 2)

OVERVIEW

The UF3 fast idle option allows the operator to push a switch and raise the engine speed to a predetermined Idle RPM value. This feature can only be used when the vehicle is stationary. Examples of Fast Idle applications are battery charging, idle operation of High Electrical Load vehicles, quick warm ups, and improved AC performance.

Scope

The GM (UF3) option described here is the necessary electrical and electronic content to control the engine idle speed. This is not a description of how to install these features if not ordered as part of the option. Base factory settings and procedures to change the factory settings are described here. Responsibility for proper and safe operation for any additional equipment remains with the Upfitter.

(PTO) vs. (UF3) Fast Idle

The (PTO) option allows for increased engine speed operation for increased power output to the PTO unit. The (UF3) fast idle option also allows for increased engine speed but is used for quick warm up, A/C performance, or battery charging. The (PTO) Power Take Off and (UF3) fast idle options are mutually exclusive on the same vehicle with the L18/LLY/LG4 engines.

ENGINE/TRANSMISSION VARIATIONS

The 2003 Medium Duty C Series uses 4 engines as shown below:

Engine	Description	Truck Family Available
L18	8.1 L Gas	2 & 3
LLY	Duramax 6600 Diesel	2
LG4	Duramax 7.8L Diesel	3
LG5	Caterpillar 7.2L Diesel	3

FACTORY INSTALLED EQUIPMENT

The UF3 fast idle option includes the Fast Idle Switch, the Fast Idle Indicator Lamp and necessary wiring to the ECM for operation.

- Fast Idle Switch - Use to increase Engine speed to a preset value.
- Fast Idle Indicator Lamp – ECM turns on light to indicate operation in the Fast Idle Mode. This indicator is in the switch.

UPFITTER INSTALLED EQUIPMENT

No upfitter installed equipment is required to operate the function. Responsibility for proper and safe operation for any additional equipment remains with the Upfitter.

OPERATION

Description

Vehicles ordered with the **UF3 (Fast Idle)** option come with a dash mounted switch which allows the user to increase the engine idle speed to a fixed value. The Fast Idle Switch is located to the right of the steering wheel as shown in the illustration (Figure 1). An indicator in the switch lights to show Fast Idle mode is active.

How To Operate

To enable the Fast Idle, the following conditions must be met:

1. Engine must be running
2. Transmission must be in Park or Neutral
3. Vehicle speed must be less than 5 mph
4. Brake or Clutch must not be depressed.

When the above conditions are met, the operator can activate the Fast Idle mode by pressing the Fast Idle Switch. If the switch is pressed while the engine is in the Fast Idle mode, the engine will return to normal base idle.

Engine Calibrations

The factory preset and minimum and maximum programmable speeds are shown in the table below for the **L18/LLY/LG4 engines:**

PROGRAMMABLE PARAMETERS	DEFAULT SETTINGS (RPM)	MINIMUM VALUE (RPM)	MAXIMUM VALUE (RPM)	ADJUSTMENT RESOLUTION (RPM)
Maximum Fast Idle Speed *Accelerator Disables Fast Idle*	2500	1000 *Can't be set below base Fast Idle Speed Parameters*	3800	25
Base Idle Speed	1200	600 *Normal engine idle will override if higher than Fast Idle.*	1300 *Cannot be set above the maximum Fast Idle Speed Parameter*	25

Note: The Values shown in the above chart are accurate at the time of publication but may change in time for various reasons including running changes made to the ECM, Calibrations, Tech 2 programming, software. Etc.

Caterpillar LG5 Engine

Base Fast Idle is set at the Factory to **1000 RPM**. Fast Idle can be programmed from **700 to 2640 RPM.**

Adjusting the Factory Preset Engine Speed

The Above parameters can be reprogrammed with a GM Tech 2 Diagnostic scan tool for the L18/LLY/LG4 engines. The Tech 2 connects to the Data Link Connector under the dash. Information regarding reprogramming with the Tech 2 tool can be found in the Appendix (Attachment 1). Reprogramming the LG5 engine requires a Caterpillar electronic service tool.

APPENDIX

Reprogramming the PCM / Using the Tech 2 Scan Tool
Attachment 1

Illustrations
Location of Fast Idle Switch and Indicator – (Figure 1)
Switch Detail – (Figure 2)

System Operating Instructions

PTO – Power Take Off Option – Electrical Requirements

OUTLINE

- Overview
- Engine/Transmission Variations
- Vocation/Modes
- Factory Installed Equipment
- Upfitter Installed Equipment
- Operation *
  - Stationary Preset Mode
  - Stationary Variable Mode
  - Mobile Variable Mode
  - PTO Engine Shutdown
  - Remote Operation
- Appendix
  - Reprogramming the PCM / Using the Tech 2 Scan Tool – (Attachment 1)
  - Illustrations
    - Location of PTO Switch and Indicator – (Figure 1)
    - PTO Switch Detail – (Figure 3)

Note: *Caterpillar has different programming capability. See your dealer for more information.

OVERVIEW

A Power Take Off (PTO) is a gearbox or mechanical device used to transmit mechanical power from the powertrain, through gears or a transmission, to another mechanical or hydraulic device. Examples of PTO applications are: salt spreaders, refuse equipment, plows, pumps, drills, lifts, wrecker equipment, dump bodies, fire/rescue equipment, etc.

PTO Advantages

- PTO's are inexpensive, convenient, safe and reliable.
- PTO's bolt on to the transmission, engine, transfer case or can be incorporated into the accessory belt drive system.
- PTO's eliminate the need for a complex array of levers, controllers, electric motors, etc., which would be required to duplicate the operation of a PTO.

Scope

The PTO unit itself is installed by the Upfitter or Specialty Vehicle Assembler on the vehicle. The GM (PTO) option described here is the necessary electrical and electronic content to control the PTO unit. Responsibility for proper and safe operation remains with the Upfitter. Other PTO related RPO's such as V66 (mechanical provisions for Front PTO) are not addressed here.

(PTO) vs. (UF3) Fast Idle

The (PTO) option allows for increased engine speed operation for increased power output to the PTO unit. The (UF3) fast idle option also allows for increased engine speed but is used for quick warm up, A/C performance, or battery charging. The (PTO) Power Take Off and (UF3) fast idle options are mutually exclusive on the same vehicle with the L18/LLY/LG4 engines.

ENGINE/TRANSMISSION VARIATIONS

The 2003 Medium Duty C Series uses 4 engines as shown below:

Engine	Description	Truck Family Available
L18	8.1 L Gas	2 & 3
LLY	Duramax 6600 Diesel	2
LG4	Duramax 7.8L Diesel	3
LG5	Caterpillar 7.2L Diesel	3

Many transmissions are available on the 2003 Medium Duty C Series. 13 manual and six automatics are available on Family 3 trucks alone. The Caterpillar engine and some Allison transmissions have dedicated PTO connectors that interface with their control modules. The Engine Controller and Transmission Controller communicate with each other on a high-speed serial data link. The PTO functions are interfaced to the ECM on 2003 Medium Duty C Series to reduce variation in wiring and function. The LG5 Caterpillar engine requires different PTO wiring from the other engine applications but functions in a similar manner. Specific wiring is supplied with the PTO option.

VOCATION/MODES

The primary difference in PTO operation is whether the vehicle is stationary or moving. Stationary operation can have either preset or variable PTO speeds. Some examples of modes and vocations are:

- Stationary Preset – Three preset high idle speeds – Refuse & Wrecker equipment, Fire truck pumpers,
- Stationary Variable – Variable high idle speeds - Drills, Lifts,
- Mobile Variable – Allows variable PTO speeds while the vehicle is moving – Salt Spreaders, Plows, Street Cleaners.

Note: The ECM can be programmed to only one of these modes at any given time. Caterpillar has different programming capability. See your dealer for more information.

FACTORY INSTALLED EQUIPMENT

The PTO option includes the PTO Enable Switch, PTO Relay, K34 Cruise Control Switch, Upfitter Connector to allow optional Upfitter installed switches, and necessary wiring.

- PTO Enable Switch – Located on Dash
- PTO Relay – Turned on by ECM, Provides power for Engage Switch and Load Solenoid.
- K34 Cruise Control Switch – Steering column mounted - use to adjust idle speeds under PTO operation.
- Upfitter Connector – allows interconnection of optional Upfitter installed switches.

UPFITTER INSTALLED EQUIPMENT

Optional Upfitter installed equipment includes Remote PTO Up / Down Switches, PTO Load Engage Switch, PTO Load Solenoid, and Remote Kill Switch. All of these devices interface with the Upfitter Connector.

- Remote PTO Up / Down Switches – Same function as Cruise Control Switches, allows operation outside of Cab for Stationary PTO applications.
- PTO Load Engage Switch – Allows for positive action feedback to ECM for before idle speed is increased. A 5 sec (calibrated) delay occurs without this feedback.

  Note: The Caterpillar ECM does not provide a feedback for PTO operation.
- PTO Load Solenoid – Causes PTO engagement if so equipped.
- Remote Kill Switch – This Normally Closed Switch allows the operator to stop the engine for remote Applications.

OPERATION

Description

The PTO RPO is an option that allows the user to raise the engine speed through the use of designated switches and ECM programming. The ECM can be programmed to one of the following three PTO modes:

- **Stationary Preset mode** – Three preset high idle speeds. Vehicle must be stationary.
- **Stationary Variable mode** – Variable high idle speeds. Vehicle must be stationary.
- **Mobile Variable mode** – Allows variable PTO speeds while vehicle is moving.

These PTO modes are addressed separately and in detail in the following pages.
Please note the ECM can be programmed to only one of the three modes at any one time.

PTO Switches

Vehicles ordered with the **PTO** option come with a IP mounted switch which allows the user to enable the function. The PTO Switch is located to the right of the steering wheel as shown in the illustration (Figure 1 & Figure 3). An indicator in the switch lights to show PTO mode is active. The engine speed can then be changed with either the cruise control switches or upfitter installed remote PTO switches. Cruise Control Switches come with the PTO option on the 2003 Medium Duty C Series. The following chart shows how the switches operate.

	PTO SWITCH CONVERSION CHART	
PTO w/Cruise Switch Operation	**Remote PTO Switch Operation**	**Function**
Cruise On/Off	N/A	Cruise Switch Enable
PTO Enable	N/A	PTO Enable
SET	PTO Down	Lower RPM
RES	PTO Up	Raise RPM

Stationary Preset Mode

Description

The Stationary Preset Mode allows the user to select from three high idle speeds which are programmed in the ECM. The user can toggle between three preset speeds using the SET or RES switches or the Remote PTO Switches.

How To Operate

Prior to enabling the Stationary PTO Mode, the following conditions must be met:

1. Engine must be running.
2. Transmission must be in Park or Neutral.
3. Vehicle speed must be less than 5 mph.
4. Brake or Clutch must not be depressed.

When the above conditions are met, the operator can activate the Stationary PTO by the following sequence:

1. Set the Park Brake.
2. Set the Cruise On/Off Switch to the On position – L18 only.
3. Set PTO Enable Switch to On position.

Upon Completion of the above steps, the PTO Stationary Preset Mode will be enabled and the engine speed will increase to the PTO Base Idle Speed. Toggling the SET and RESume switches will cause the engine RPM to change from normal to either the PTO Preset #1 or PTO Preset #2 speed depending on which switch is pressed first.

Note: LLY/LG4 – ECM enables PTO relay with switch activation. Once on, the ECM won't turn the relay off until the switch is turned off.

Any changes in the above conditions, including depressing the brake or clutch pedals or shifting an automatic transmission in gear, will disable the Stationary Preset Mode causing the engine to return to normal base idle.

Note: L18 - Using the Accelerator to raise the engine above the Maximum Fast Idle Speed will result in disabling the PTO Stationary Preset Mode.
LLY/LG4 – Engine will be governed to PTO Max engine speed with throttle activation. Engine speed will return to pre-activation value after the pedal is released.

Engine Calibrations

The factory preset and minimum and maximum programmable speeds are shown in the table below for the **L18/LLY/LG4 engines:**

PROGRAMMABLE PARAMETERS	DEFAULT SETTINGS (RPM)	MINIMUM VALUE (RPM)	MAXIMUM VALUE (RPM)	ADJUSTMENT RESOLUTION (RPM)
Maximum Fast Idle Speed *Accelerator Disables Fast Idle*	2500 – *L18* 2200 – *LLY/LG4*	1000 *Can't be set below base Fast Idle Speed Parameters*	3800 – *L18* 2200 – *LLY/LG4*	50
PTO Base Idle Speed	1200 – *L18* 850 – *LLY* 1000 – *LG4*	600 *Normal engine idle will override if higher than Fast Idle.*	1300 – *L18* 1400 – *LLY/LG4* *Cannot be set above the maximum Fast Idle Speed Parameter*	50
PTO Preset #1	1200 – *L18* 1250 – *LLY* 1400 – *LG4*	1000 *Can't be set below base Fast Idle Speed Parameters*	Maximum Fast Idle Speed	50
PTO Preset #2	1800 – *L18 1700* 1700 – *LLY/LG4*	1000 *Can't be set below base Fast Idle Speed Parameters*	Maximum Fast Idle Speed	50
PTO Relay Engage Max Engine Speed	1000 – *LLY/LB4*	600	Maximum Fast Idle Speed	50

Note: The Values shown in the above chart are accurate at the time of publication but may change in time for various reasons including running changes made to the ECM, Calibrations, Tech 2 programming, software. Etc.

Caterpillar LG5 Engine

PTO Engine RPM Set Speed is factory set at 1200 rpm. PTO Engine RPM Set Speed can be programmed between 700 and 2640 rpm.

Adjusting the Factory Preset Engine Speed

The Above parameters can be reprogrammed with a GM Tech 2 Diagnostic scan tool for the L18/LLY/LG4 engines. The Tech 2 connects to the Data Link Connector under the dash. Information regarding reprogramming with the Tech 2 tool can be found in the Appendix (Attachment 1). Reprogramming the LG5 engine requires a Caterpillar electronic service tool.

Stationary Variable Mode

Description

The Stationary Variable Mode allows the user to retain the engine speed at a desired value through the use of the accelerator pedal and the SET or RES switch. The engine speed must be greater than the PTO Base Fast Idle Speed and lower than the Maximum Fast Idle Speed.

How To Operate

Prior to enabling the Stationary Variable PTO Mode, the following conditions must be met:

1. Engine must be running
2. Transmission must be in Park or Neutral
3. Vehicle speed must be less than 5 mph
4. Brake or Clutch must not be depressed.

When the above conditions are met, the operator can activate the Stationary Variable PTO by the following sequence:

1. Set the Park Brake.
2. Set the Cruise On/Off Switch to the On position – L18 only.
3. Set PTO Enable Switch to On position.
4. Depress the Accelerator pedal to obtain the desired high idle speed.
5. Press the SET button to hold engine at the desired high idle speed.

The SET and RES switches can then be used to adjust the engine speed within the Maximum and Minimum RPM values shown in the Engine calibration table (Table A). The adjustment increments are 25 RPM (L18/LG4), 100 RPM (LG7). This function with the remote switches as well as the cruise control switches.

PTO – STATIONARY VARIABLE MODE FUNCTION CHART		
SWITCH	**SET**	**RES**
PRESSING ONCE	Engine speed will decrease by **25 RPM** (L18/LG4), **100 RPM** (LLY) decrements and will maintain the new engine speed value. Engine speed can be decreased down to the engine base idle speed value. If engine speed is at this value, all SET inputs will be ignored.	Engine speed will increase by **25 RPM** (L18/LG4), **100 RPM** (LLY) increments and will maintain the new engine speed value. Engine speed can increase up to the maximum fast idle speed value. If engine speed is at this value, all RES inputs will be ignored.
HELD	Decelerates engine down to the engine base idle speed value.	Increases engine speed up to the maximum fast idle speed value.

Note: If the Stationary Variable Mode is disabled (i.e., brake depressed), it may be re-enabled by pressing the RES switch. This will cause the engine to resume the speed it was prior to disabling.

TABLE "A" — *Engine Calibrations*

The factory preset and minimum and maximum programmable speeds are shown in the table below for the **L18/LLY/LG4 engines:**

PROGRAMMABLE PARAMETERS	DEFAULT SETTINGS (RPM)	MINIMUM VALUE (RPM)	MAXIMUM VALUE (RPM)	ADJUSTMENT RESOLUTION (RPM)
Maximum Fast Idle Speed *Accelerator Disables Fast Idle*	2500 – *L18* 2200 – *LLY/LG4*	1000 *Can't be set below base Fast Idle Speed Parameters*	3800 – *L18* 2200 – *LLY/LG4*	25 – *L18/L64* 100 – *LLY*
PTO Base Idle Speed	1200 – *L18* 850 – *LLY* 1000 – *LG4*	600 *Normal engine idle will override if higher than Fast Idle.*	1300 – *L18* 1400 – *LLY/LG4* *Cannot be set above the maximum Fast Idle Speed Parameter*	25 – *L18/L64* 100 – *LLY*
PTO Relay Engage Max Engine Speed	1000 – *LLY/LB4*	600	Maximum Fast Idle Speed	50

Note: The Values shown in the above chart are accurate at the time of publication but may change in time for various reasons including running changes made to the ECM, Calibrations, Tech 2 programming, software. Etc.

Caterpillar LG5 Engine

PTO Engine RPM Set Speed is factory set at 1200 rpm. PTO Engine RPM Set Speed can be programmed between 700 and 2640 rpm. The PTO bump rate is 50 RPM.

Adjusting the Factory Preset Engine Speed

The Above parameters can be reprogrammed with a GM Tech 2 Diagnostic scan tool for the L18/LLY/LG4 engines. The Tech 2 connects to the Data Link Connector under the dash. Information regarding reprogramming with the Tech 2 tool can be found in the Appendix (Attachment 1). Reprogramming the LG5 engine requires a Caterpillar electronic service tool.

Any changes in the above conditions, including depressing the brake or clutch pedals or shifting an automatic transmission in gear, will disable the Stationary Variable Preset Mode causing the engine to return to normal base idle. Using the Accelerator to raise the engine above the Maximum Fast Idle Speed will result in disabling the PTO Stationary Variable Mode.

Mobile Variable Mode

Description

The PTO Mobile Mode allows the driver to maintain a desired engine speed (not vehicle speed) while the vehicle is moving. This feature is available with both manual and automatic transmissions. The engine speed must be greater than the PTO Base Fast Idle Speed and lower than the Maximum Fast Idle Speed. The Vehicle speed must be between the Minimum and Maximum Vehicle Speed Values.

How To Operate

To engage the PTO Mobile Variable Mode, the following conditions must be met in the following order:

1. Engine must be running
2. Transmission must be in gear.
3. Vehicle speed must be between the Minimum and Maximum Vehicle Speeds
4. Brake or Clutch must not be depressed.
5. PTO Enable Switch must be set to the On position

When the above conditions are met, the operator can activate the Mobile Variable mode by the following sequence:

7. Depress the Accelerator Pedal to obtain the desired engine speed.
8. Press the SET button to hold engine at the desired high idle speed.

The SET and RES switches can then be used to adjust the engine speed within the Maximum and Minimum RPM values shown in the Engine calibration table (Table B). The adjustment increments are 25 RPM (L18/LG4), 100 RPM (LG7).

PTO – MOBILE VARIABLE MODE FUNCTION CHART		
SWITCH	**SET**	**RES**
PRESSING ONCE	Engine speed will decrease by **25 RPM** (L18/LG4), **100 RPM** (LLY) decrements and will maintain the new engine speed value. Engine speed can be decreased down to the engine base idle speed value. If engine speed is at this value, all SET inputs will be ignored. If the vehicle reaches the Minimum Vehicle Speed Value, PTO mode will be disengaged.	Engine speed will increase by **25 RPM** (L18/LG4), **100 RPM** (LLY) increments and will maintain the new engine speed value. Engine speed can increase up to the maximum fast idle speed value. If engine speed is at this value, all RES inputs will be ignored. If the vehicle reaches the Maximum Vehicle Speed Value, PTO mode will be disengaged.
HELD	Decelerates engine down to the engine base idle speed. If the vehicle reaches the Minimum Vehicle Speed Value, PTO mode will be disengaged.	Increases engine speed up to the maximum fast idle speed value. If the vehicle reaches the Maximum Vehicle Speed Value, PTO mode will be disengaged.

Note: If the Stationary Variable Mode is disabled (i.e., brake depressed), it may be re-enabled by pressing the RES switch. This will cause the engine to resume the speed it was prior to disabling.

TABLE "B" — *Engine Calibrations*

The factory preset and minimum and maximum programmable speeds are shown in the table below for the **L18/LLY/LG4 engines:**

PROGRAMMABLE PARAMETERS	DEFAULT SETTINGS (RPM)	MINIMUM VALUE (RPM)	MAXIMUM VALUE (RPM)	ADJUSTMENT RESOLUTION (RPM)
Maximum Fast Idle Speed *Accelerator Disables Fast Idle*	2500 – *L18* 2200 – *LLY/LG4*	1000 *Can't be set below base Fast Idle Speed Parameters*	3800 – *L18* 2200 – *LLY/LG4*	25 – *L18/L64* 100 – *LLY*
PTO Base Idle Speed	1200 – *L18* 1000 – *LLY/LG4*	600 *Normal engine idle will override if higher than Fast Idle.*	1300 – *L18* 1400 – *LLY/LG4* *Cannot be set above the maximum Fast Idle Speed Parameter*	25 – *L18/L64* 100 – *LLY*
Maximum Vehicle Speed Governing MPH	**20** – *L18* **80** – *LLY* **75** – *LG4*	3 MPH	**30** – *L18* **80** – *LLY* **255** – *LG4*	1
PTO Relay Engage Max Engine Speed	1000 – *LLY/LB4*	600	Maximum Fast Idle Speed	50

Note: The Values shown in the above chart are accurate at the time of publication but may change in time for various reasons including running changes made to the ECM, Calibrations, Tech 2 programming, software. Etc.

Caterpillar LG5 Engine

PTO Engine RPM Set Speed is factory set at 1200 rpm. PTO Engine RPM Set Speed can be programmed between 700 and 2640 rpm. The PTO bump rate is 50 RPM.

Adjusting the Factory Preset Engine Speed

The Above parameters can be reprogrammed with a GM Tech 2 Diagnostic scan tool for the L18/LLY/LG4 engines. The Tech 2 connects to the Data Link Connector under the dash. Information regarding reprogramming with the Tech 2 tool can be found in the Appendix (Attachment 1). Reprogramming the LG5 engine requires a Caterpillar electronic service tool.

PTO Engine Shutdown

Description

The PTO option includes provisions for PTO engine fault shutdown. This feature allows the operator to stop the engine while in PTO mode with an aftermarket installed switch. **If the truck is not in PTO mode, pressing the switch will have no effect on engine operation.** The PTO Upfitter Connector (located on the right side of the engine compartment near the right wheel) Component legend has been provided for installation of remote PTO controls. The upfitter can access the PTO engine fault shutdown circuits through this connector. The upfitter must provide the mating connector, wiring, and remoter switches shown on the Upfitter (PTO) Connector. To install this feature see the upfitter provisions schematics. Important. **If the PTO engine shutdown feature is to be used, it must be turned on in the ECM. If this feature is not turned on it will have no effect on the engine.**

The Above parameters can be reprogrammed with a GM Tech 2 Diagnostic scan tool for the L18/LLY/LG4 engines. The Tech 2 connects to the Data Link Connector under the dash. Information regarding reprogramming with the Tech 2 tool can be found in the Appendix (Attachment 1). Reprogramming the LG5 engine requires a Caterpillar tool or see your Caterpillar Dealer.

Remote Operation

Description

The PTO Upfitter Connector (located on the right side of the engine compartment near the right wheel) Component legend has been provided for installation of remote PTO idle controls. The upfitter can access the PTO high idle circuits through this connector. The upfitter must provide the mating connector, wiring, and remoter switches shown on the Upfitter (PTO) Connector. Two momentary switched are required to duplicate the operation of the SET and RESume switches in the cab. The schematics showing the switches can be found on the Subsystem Electrical schematics under Upfitter Provisions. PTO UP switches duplicate the RES switch operation and the PTO Down switch duplicates the SET switch operation. **Please note that the PTO high idle must still be enabled from the Cruise On/Off and the PTO enable switches in the cab.**

Separating Stop from Turn Signal Lamps (Amber Turn/Hazard Lamps)

The 2003 Medium Duty C trucks have single red tail lamp assemblies that function as stop/turn/hazard lamps. Many applications call for separating the brake lamps from the Turn/Hazard function or adding additional Amber Turn / Hazard lamps.

The procedure for implementing Amber Turn /Hazard Lamps is outlined below.

1. Remove the CHMSL ISO relay (Page B6) to eliminate the brake function from the existing lights. Signaling lamps have only the turn/hazard flasher capability. There are no stop lights on the vehicle when the Relay is removed.
2. Stop lights must be added back by wiring to the 1320 (Stop) circuit in the Body Builder or Bus Connectors (Page C1 & Page C3). Existing Rear Tail Lamp assemblies may be utilized by directly wiring to them. See Exterior Lighting Subsystem Electrical Schematic (Page D217).
3. Additional Turn lamps can be wired to 318 (Left Turn) and the 319 (Right Turn) circuits in the Body Builder or Bus Connector.

It is the responsibility of the upfitter to meet all FMVSS lighting requirements. The upfitter must also ensure that the combined current of any additional lighting does not exceed the circuit fusing.

Note: This procedure eliminates the Brake Lamp function at the 7-way Family 2 Trailer Connector.

APPENDIX

Reprogramming the PCM / Using the Tech 2 Scan Tool – (Attachment 1)

Illustrations
- Location Illustrations
  - IP Switch Panel (Figure 1)
  - PTO Enable Switch – See Component Locations – (Figure 3)
  - Upfitter PTO Connector is shown in the connector and pin-out illustrations
- Connector Drawings
  - Upfitter Provisions Connector are shown in the connector and pin-out illustrations

Circuit Schematic References *(Circuit Schematics are shown in the Subsystem Electrical Schematic portion of the Body Builders Manual)*
- Upfitter Provision Connector – L18/LLY/LG4
- Upfitter Provision Connector – LG5
- L18 Gas Engine
- Duramax 6600 and 7.8L Diesel Engines
- Caterpillar 7.2L Diesel Engine
- PTO Operation w/Duramax 7.4L Diesel Engine

ATTACHMENT 1

REPROGRAMMING THE PCM/ECM FOR FAST IDLE/PTO USING THE TECH 2 SCAN TOOL

The Tech 2 scan tool MUST be used to enable the Fast Idle and PTO options and adjust the factory preset parameters to desired settings. The Tech 2 menu driven device is a hand held scan tool that plugs into the datalink connector located underneath the dash near the driver's seat. Once the Tech 2 is connected, the following chart will guide the user.

STEP	CURRENT MENU	SELECT
1	MAIN	F0: DIAGNOSTICS
2	VEHICLE IDENTIFICATION	YEAR OF VEHICLE
3	VEHICLE IDENTIFICATION	MEDIUM DUTY TRUCK
4	SYSTEM SELECTION	F0: POWERTRAIN
5	VEHICLE IDENTIFICATION	LP4 OR L21
6	VEHICLE IDENTIFICATION	AUTOMATIC OR MANUAL
7	POWERTRAIN	F2: SPECIAL FUNCTIONS
8	SPECIAL FUNCTIONS	F3: PTO OPTIONS
9	CURRENT PTO SETTINGS	CHANGE OPTIONS
10	PTO OPTIONS	SEE PAGE 23

TO ADJUST THE MODE OF OPERATION:

The PTO OPTIONS MENU will appear with the selections:

F0: FAST IDLE

FI: STATIONARY PRESET FAST IDLE

F2: STATIONARY VARIABLE FAST IDLE

F3: MOBILE VARIABLE FAST IDLE

Once the mode of operation is selected the **CURRENT PTO SETTINGS** menu will appear with the adjustable parameters for the current mode.

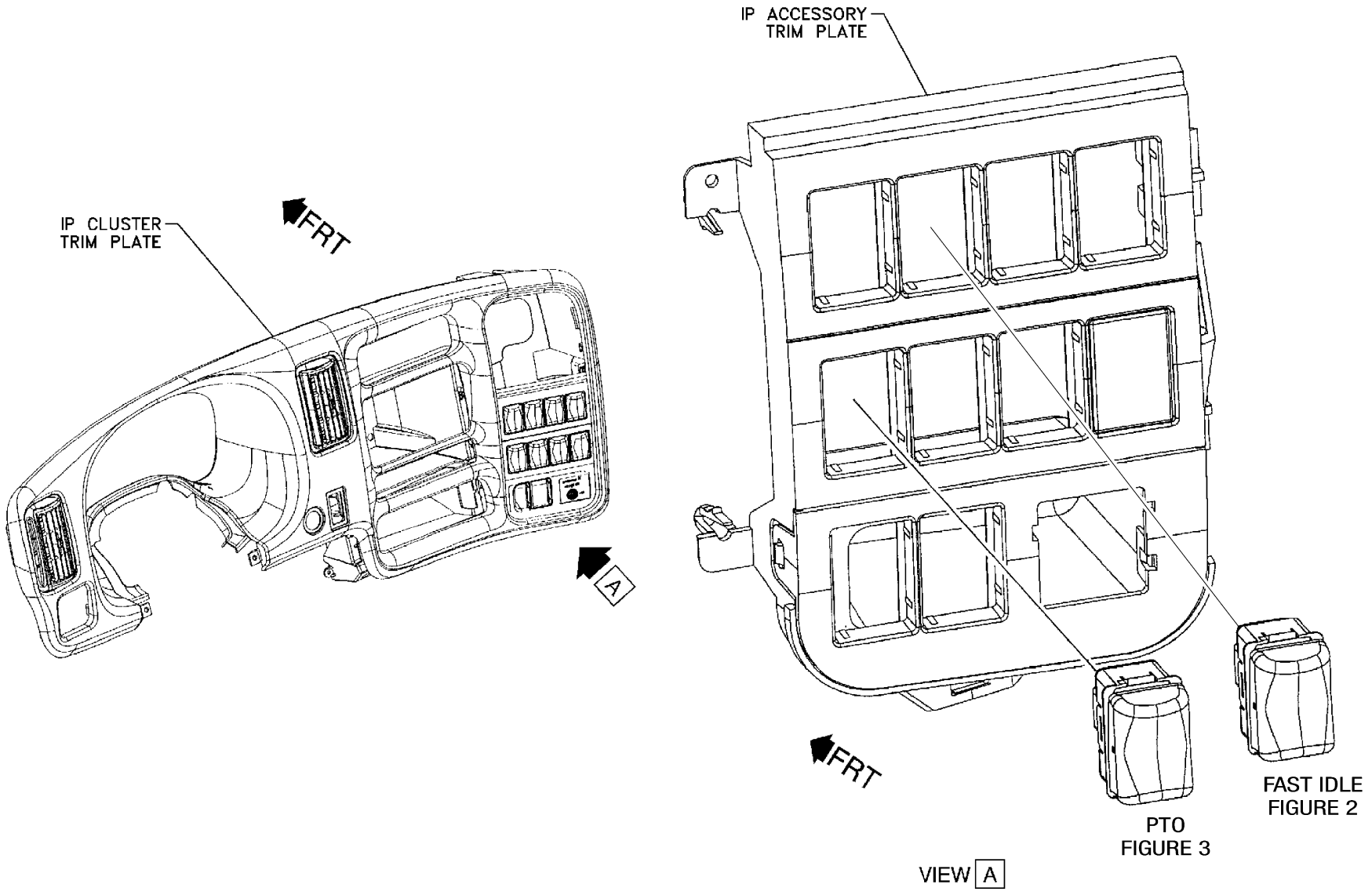
This screen allows the user to increase or decrease engine RPM values using the **INCREASE** and **DECREASE** buttons. If the Engine Fault Shutdown feature is selected, the **YES** or **NO** buttons will determine if this feature is enabled.

After all the settings are adjusted, the user will press the **REPROGRAM** button and the **CURRENT PTO SETTINGS** menu will appear with the changes. The ignition must be turned off for ten seconds to ensure that the program values are stored in the PCM.

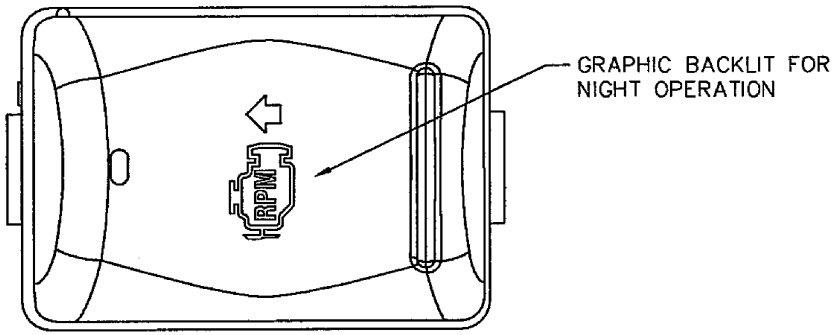
SERVICE CONSIDERATIONS

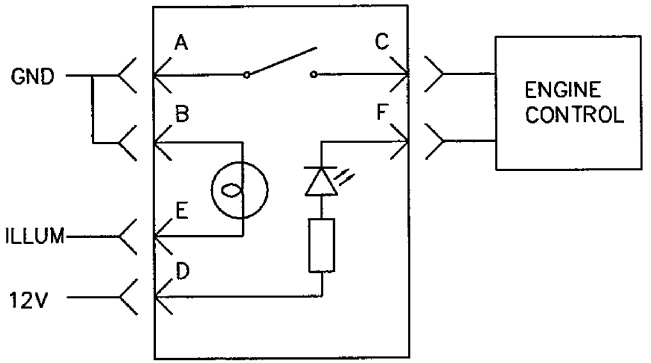
IMPORTANT: Please be aware that UF3 and PTO high idle settings must be reprogrammed in the event that the PCM is replaced. It may be advisable to provide the PCM settings information to the customer in case the PCM requires servicing during some point in the life of the vehicle.

IP, Switch Trim Plate, Fast Idle and PTO Switch Location (Figure 1)

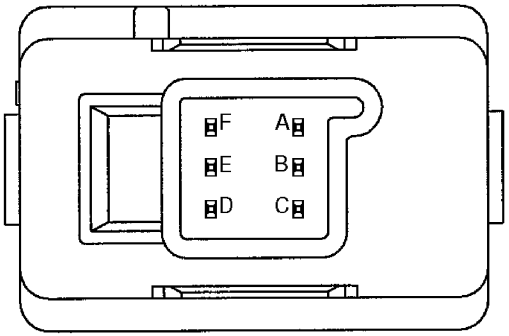


Switch – Fast Idle (Figure 2)

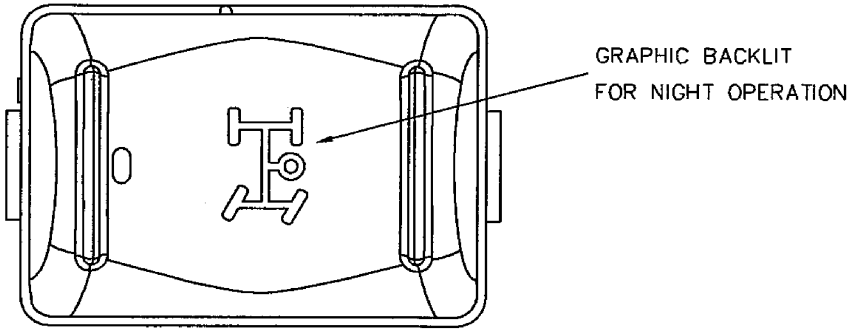


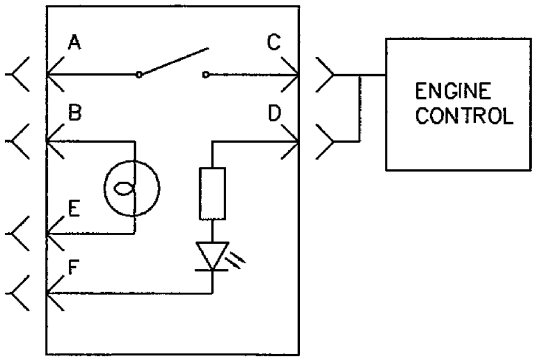


CIRCUIT SCHEMATIC



PTO Enable Switch (Figure 3)





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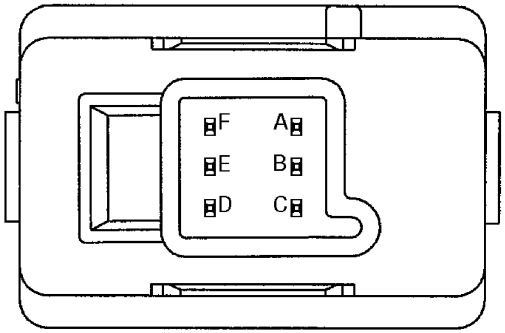
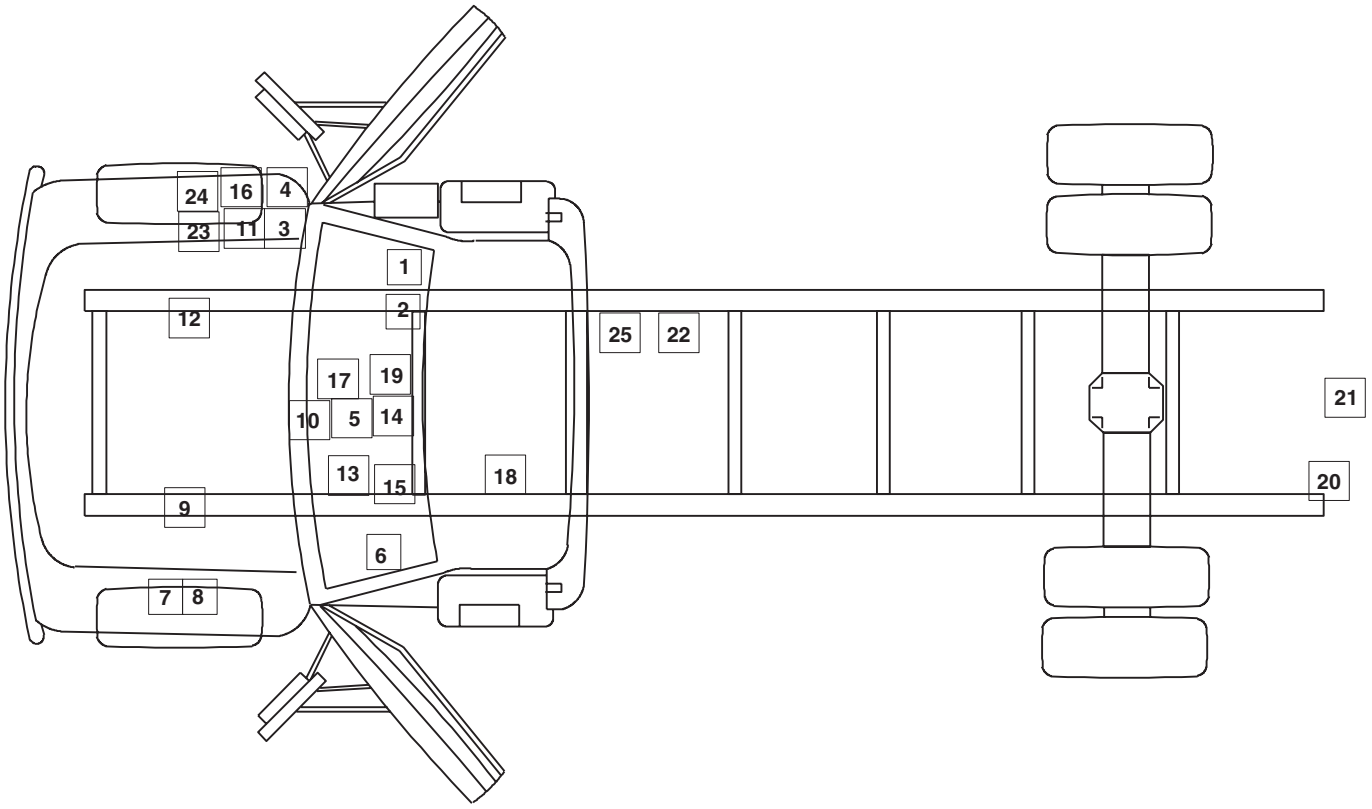


2005 MEDIUM DUTY C SERIES ELECTRICAL

Electrical Component Legend

DATE	ESCR	L	DESCRIPTION
19OC00	N/A	A	MAJOR MODULE LOCATIONS



LOCATION LEGEND

1	IP DISTRIBUTION/RELAY CTR.
2	IP DISTRIBUTION CTR.
3	UNDERHOOD DISTRIBUTION CTR.
4	MAXI FUSE CTR.
5	CHIME/RADIO
6	DRL
7	EBC AIR/TCS
8	EBC HYD./TCS
9	ECU CAT. LG5
10	ECU ISZ LG4
11	ECU ISZ LB7
12	EDU ISZ LB7
13	ETC/PPS
14	HVAC
15	IPC
16	PCM/LCT TCM/WTEC TCM
17	RFA
18	SDM
19	TTM
20	TRAILER CONNECTOR FAM 2
21	TRAILER CONNECTOR FAM 3
22	BODY BUILDER CONNECTOR
23	TRANS OPTION CONNECTOR
24	PTO UPFITTER CONNECTOR
25	GROUND BLOCK

☐ PRELIM ☐ PROTO
☐ PROPOSAL ☒ PILOT
RELEASE LEVEL

Reference | OBJECT ID | REVISION | STAGE | VERSION | LAST CHANGED BY 9:06:20 am | ORGANIZATION
PROJECT 03 2003 M. D. C Series | h22m_ref_modules | 017 | X | 0 | 2003 Medium Duty C Series
Panel Set: 1 schematic sheet 7 SVEDWORK\h22m_ref_modules_ 017 | Wednesday, July 18, 2001

—— WIRE
— — CLASS-2 ▬ ▬ J1939

(REFERENCE)
MAJOR MODULE
LOCATIONS
GM Proprietary

FAMILY II:
JE3 : HYDRAULIC BRAKES
L18 : GMPT 8.1L V8 GAS
LB7 : DURAMAX 6600 6.6L V8 DIESEL
M74/MTW : LCT 1000/2400 AUTO TRANS
ML6 : MANUAL TRANS

FAMILY III:
JE3 : HYDRAULIC BRAKES
JE4 : AIR BRAKES
L18 : GMPT 8.1L V8 GAS
LG4 : DURAMAX 7800 7.8L L6 DIESEL
LG5 : CATERPILLAR 7.2L L6 DIESEL
MX4/MTW : LCT 2000/2400 AUTO TRANS
MNK/MNZ/MPS/MTP : MD AUTO TRANS
M69/MM7/MPU/MSC/MSG/MT3 : MANUAL TRANS
MK8/MK9/MKO/MLO/MS9/MUT/MM8 : MANUAL TRANS

FAMILY VALUES:

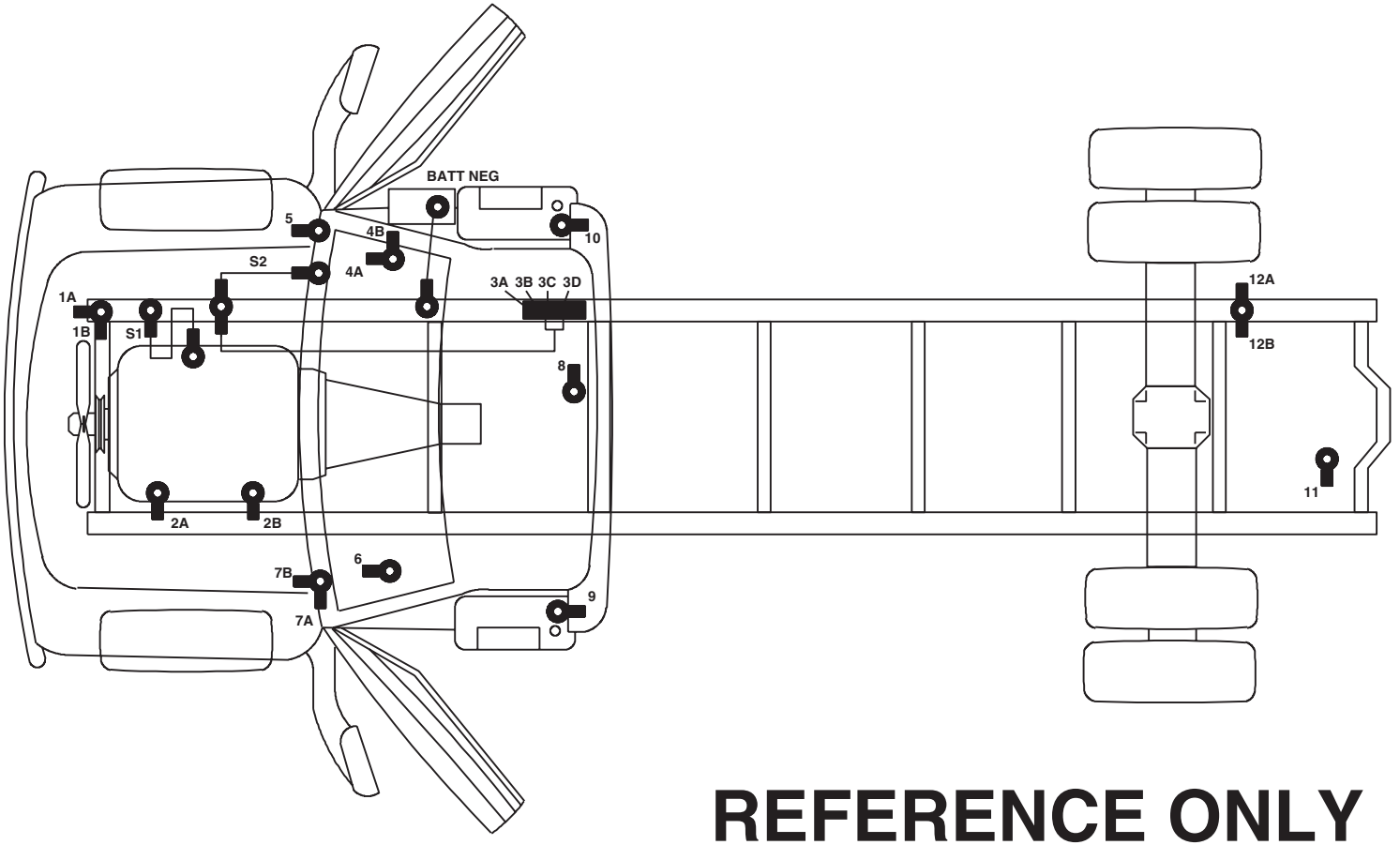
PAGE NO. 1a
PANEL 1 OF 1
FAMILY II ☒
FAMILY III ☒

CHIME - CHIME MODULE
DLC - DATA LINK CONNECTOR
DRL - DAYTIME RUNNING LAMPS
DTC - DIAGNOSTIC TOOL CONNECTOR
EBC - ELECTRONIC BRAKE CONTROL
ECU - ENGINE CONTROL UNIT - L6
EDU - ELECTRONIC DRIVER UNIT
ETC - ELECTRONIC THROTTLE CONTROL
HVAC - HVAC MODULE
IPC - INSTRUMENT PANEL CLUSTER
LCT - LIGHT COMMERCIAL TRANS
PCM - POWERTRAIN CONTROL MODULE - V8
PPS - PEDAL POSITION SENSOR
RADIO - RADIO MODULE
RFA - REMOTE FUNCTION ACTUATOR
SDG - SERIAL DATA GATEWAY
SDM - SENSING & DIAGNOSTICS MODULE
TCM - TRANSMISSION CONTROL MODULE
TCS - TRACTION CONTROL SYSTEM
TTM - TELL TALE MODULE
WTEC - TCM FOR MD TRANS

Ground Zones

03 560 000	JG	PILOT B - INITIAL CREATION	21SE00	001
03 560 000	JG	Stacked Gnd Block Conn with S2	21SE00	001

Ground Zones



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Ground Zones	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY	4:14:11 pm	ORGANIZATION	
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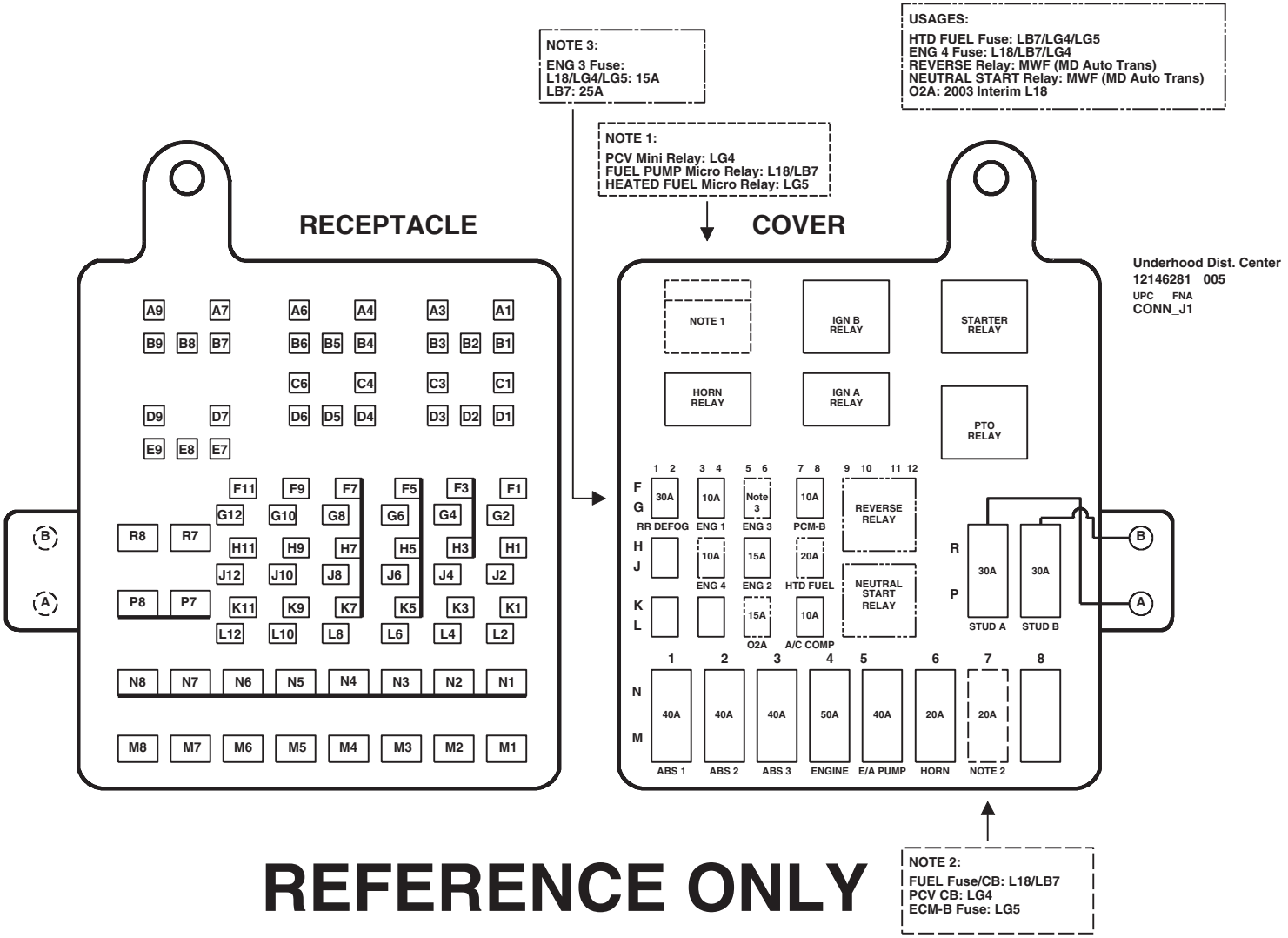
Panel Set: 1 schematic sheet1 2	$IVEDWORK/h22009a__003				Thursday, September 21, 2000		Panel Set: 1	

Underhood Distribution Center

Underhood Distribution Center



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Power Distribution Centers
2003 M. D. C Series 03 X
Panel Set: 1 schematic sheet1 62

OBJECT ID h22011a
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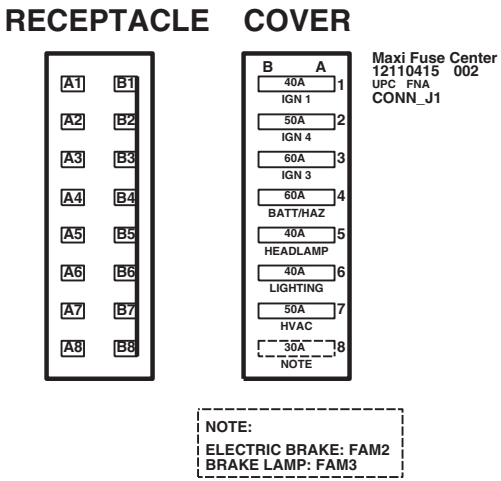
REVISION 004
STAGE Pilot
VERSION B
LAST CHANGED BY
Thursday, January 3, 2002
3:19:52 pm

ORGANIZATION
2003 Medium Duty C Series
Panel Set: 1

Maxi Fuse Center

Maxi Fuse Center



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REVISION 004 STAGE Pilot VERSION B
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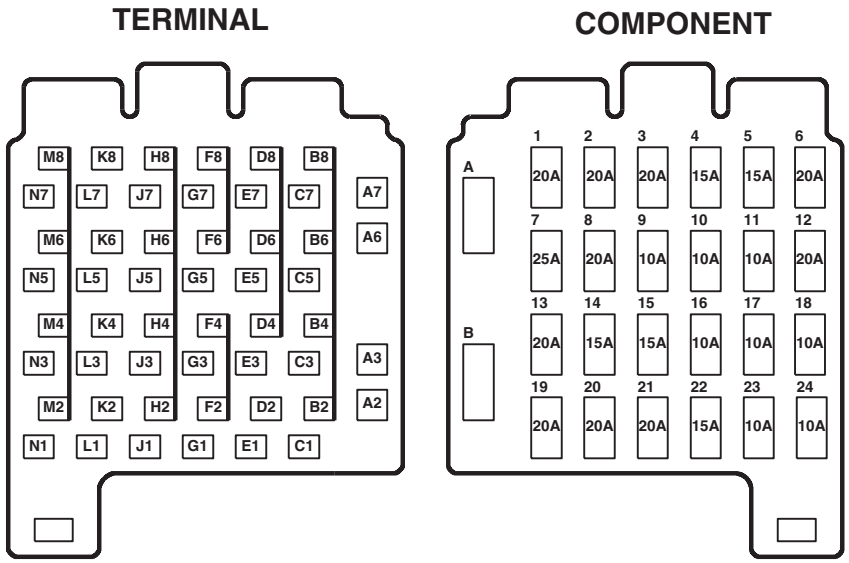
ORGANIZATION 2003 Medium Duty C Series
Panel Set: 2

IP Distribution Center

IP Distribution Center



NUMBER	CIRCUIT BREAKER
1	STOP
2	CHMSL
3	PARK
4	PCM-I
5	AUX WIRE RLY
6	HTR/AC
7	HAZARD
8	PWR POST
9	COURTESY
10	GAUGES
11	START
12	AXLE/4WD
13	TRLR TRN/HAZ
14	RADIO/CHIME
15	DRL
16	SIR
17	ILLUM
18	BRAKE
19	PWR ACCY
20	IGN 4
21	MARKER LAMP
22	TURN/BACKUP
23	TRANS
24	CHASSIS
A	SPARE
B	SPARE

IP Electrical Center
12110746 001
UPC FNA
CONN_J1

REFERENCE ONLY

Power Distribution Centers
2003 M. D. C Series 03 X
Panel Set: 3 schematic sheet1 62

OBJECT ID h22011a
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REVISION 004
STAGE Pilot
VERSION B
LAST CHANGED BY
Thursday, January 3, 2002
3:19:52 pm

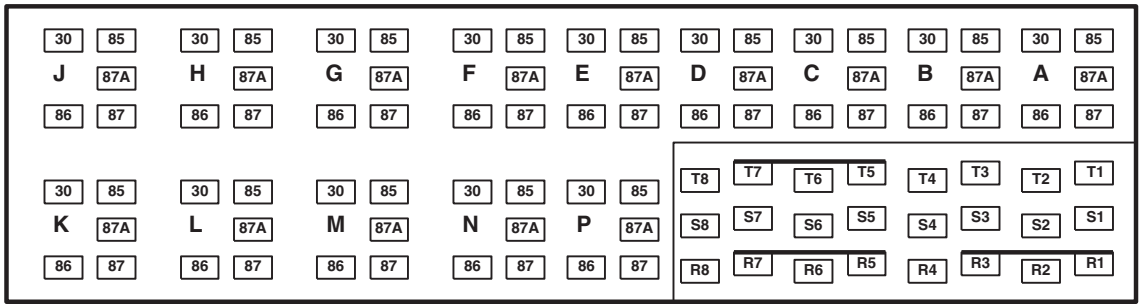
ORGANIZATION
2003 Medium Duty C Series
Panel Set: 3

IP Distribution/Relay Center

IP Distribution/Relay Center

03 560 000	JG	PILOT B - INITIAL CREATION	11OC00	001
03 560 803	JG	Underhood Center Label Change	11OC00	001
03 560 839	JG	Headlamp Fuse Rating Change from 50A to 40A	20DE00	001
03 560 854	JG	Add Air Heater Relay	17JA01	001
03 560 000	JG	Updated UH Center	07MR01	001
03 560 981	JG	Family 2 School Bus	03AP01	001
03 560 1056	LR	Remove RPO LC8	17JL01	001
03 560 1118	JG	Add SEO Content	16OC01	001
03 560 899	JG	Merged 2003 & 2003i	19DE01	001

RECEPTACLE



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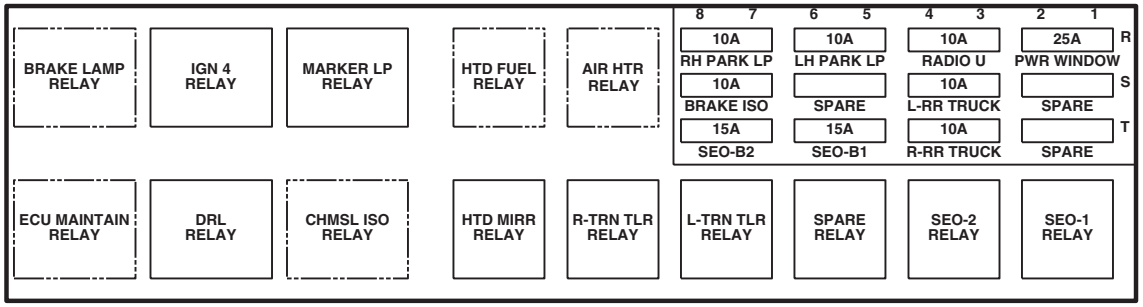

USAGES:

BRAKE LAMP RLY: RQ3/U86 (Family 3 Tractor/Trailer Wiring)
HEATED FUEL RELAY: LB7/LG4
ECU MAINTAIN RELAY: LG4
AIR HEATER RELAY: LG4
CHMSL ISO RELAY: -B3D (School Bus)

REFERENCE ONLY

Power Distribution Centers
2003 M. D. C Series 03 X
Panel Set: 4 schematic sheet1 62 $IVEDWORK/h22011a__004

OBJECT ID h22011a
REVISION 004
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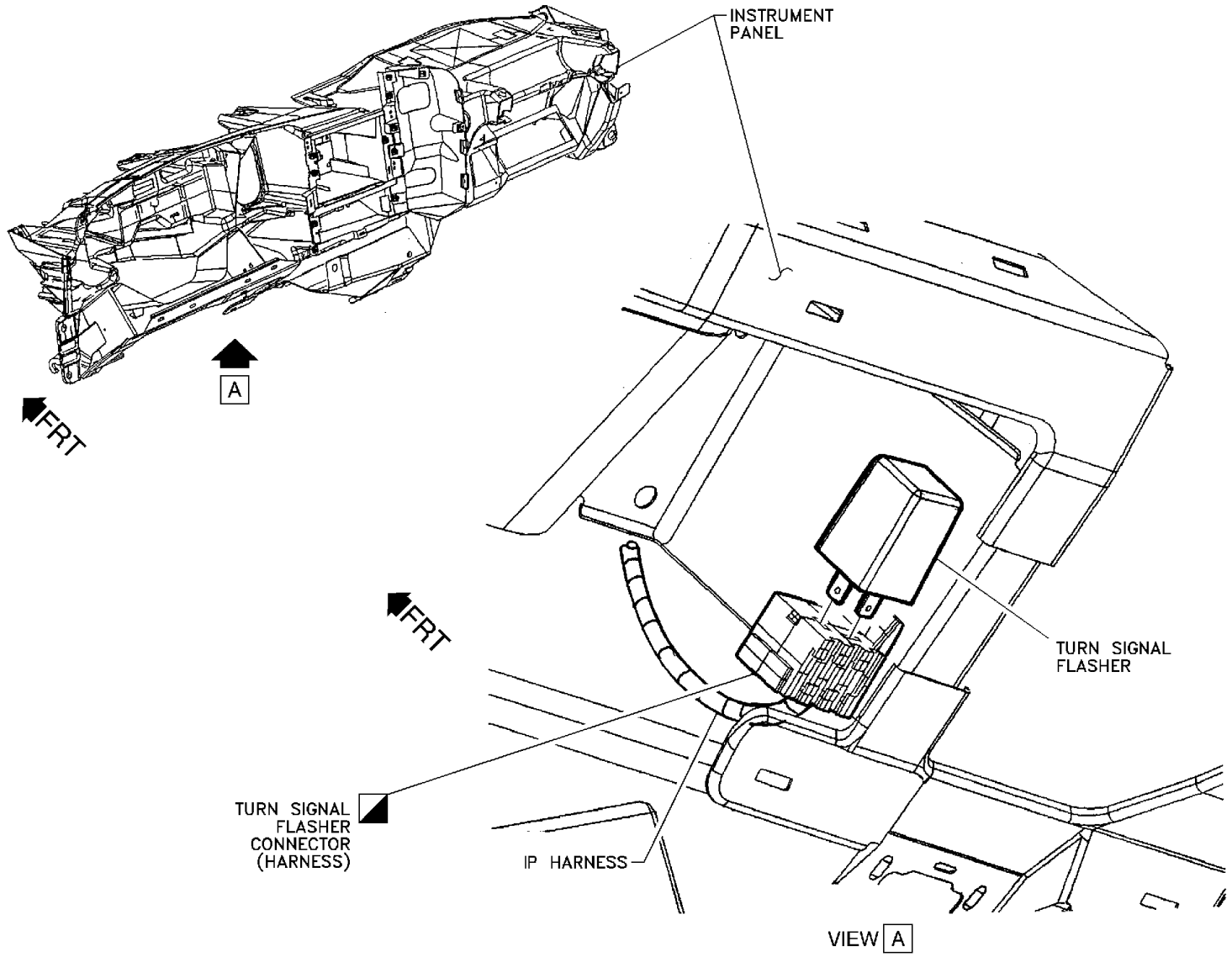
VERSION B
LAST CHANGED BY
3:19:52 pm Thursday, January 3, 2002
ORGANIZATION 2003 Medium Duty C Series
Panel Set: 4

Turn Signal Flasher

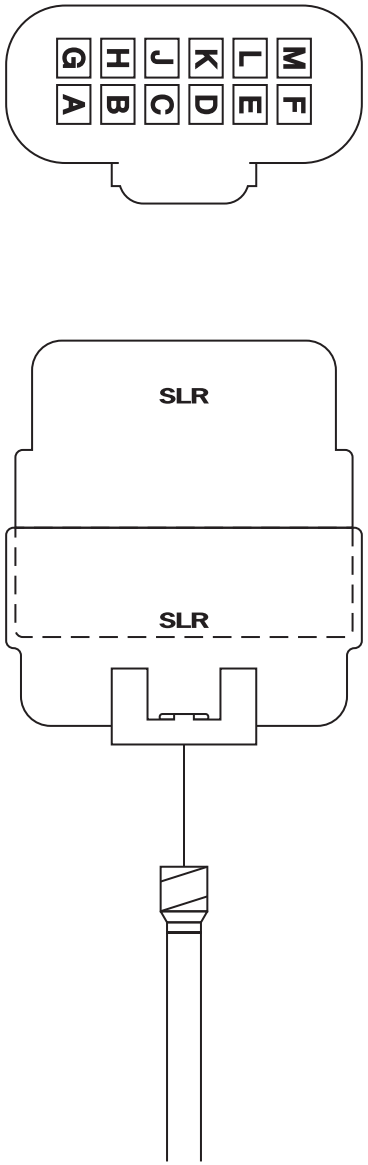


12-Way Body Builder Connector

	TRUCK SIDE	BODY BUILDER SIDE
Connector	Packard 280 Series	
Typical connector	15326910 (F)	15326915 (M)
Typical terminal	15304719	15304731
Typical cable seal	12191221	12191232

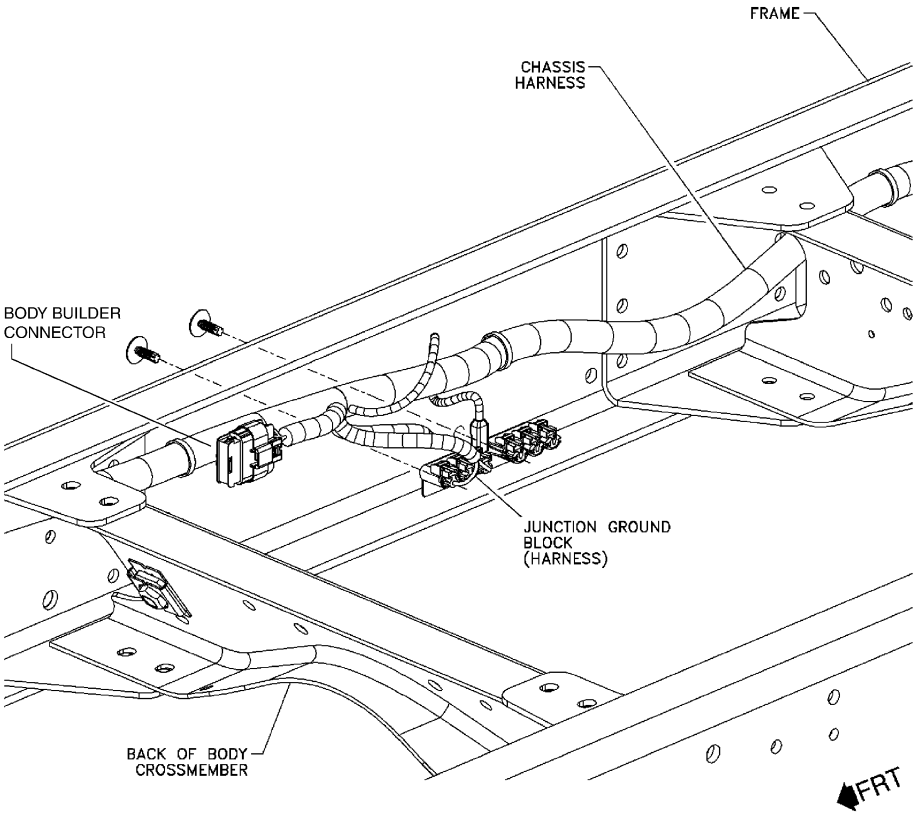
Pin	Wire		Function
	Ckt #	Color	
A	1827	YEL/BLK	128,000 Pulses/Mile*
B	2609	BRN/WHT	Right Park Lamp
C	318	YEL	Lt Stop/Turn (Fam2), Lt Turn (Fam3)
D	2509	BRN	Lt Park Lamp
E	1320	BLU LT	Stop
F	641	BRN	IGN 3 15A
G	21	GRN DK	Marker Lamp 20A
H	350	BLK	GND Zone 3B
J	TBD	—	Spare
K	319	GRN DK	Rt Stop/Turn (Fam2), Rt Turn (Fam3)
L	24	GRN LT	Back Up
M	TBD	—	Spare

* 4000 ppm LG5 only

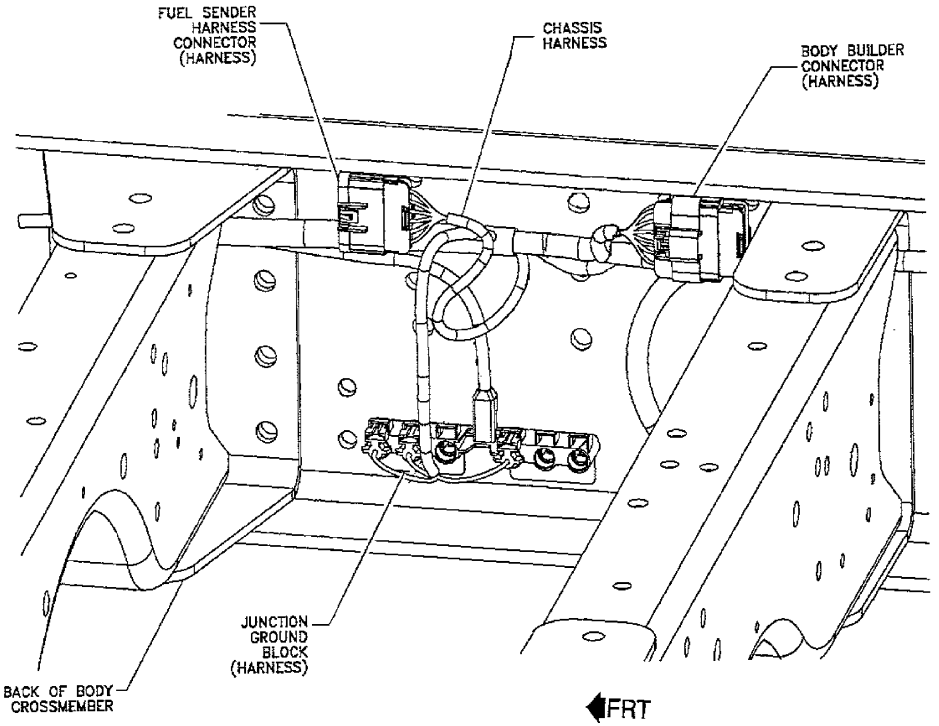


Body Builder Connector Location

Family 2



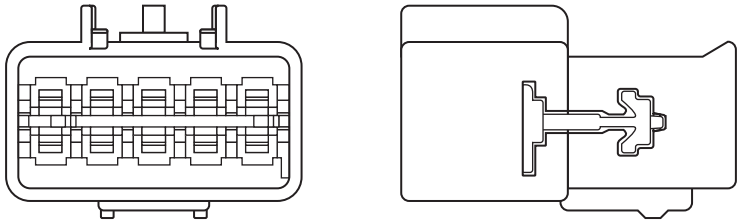
Family 3



10-Way Bus Connector (top) / 2-Way Bus Connector (bottom) – Family 2

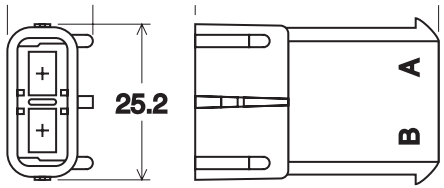
	TRUCK SIDE	BODY BUILDER SIDE
Connector	Packard GT 280 Series	
Typical connector	15326935 (M)	15326931 (F)
Typical terminal	15304722	15304710

Pin	Wire		Function
	Ckt #	Color	
A	24	GRN LT	Back Up
B	2609	BRN/WHT	Right Park
C	318	YEL	Left Turn
D	2509	BRN	Left Park
E	1320	BLU LT	Stop
F	—	—	Spare
G	—	—	Spare
H	350	BLK	Gnd Zone 3B
J	—	—	Spare
K	319	GRN DK	Right Turn

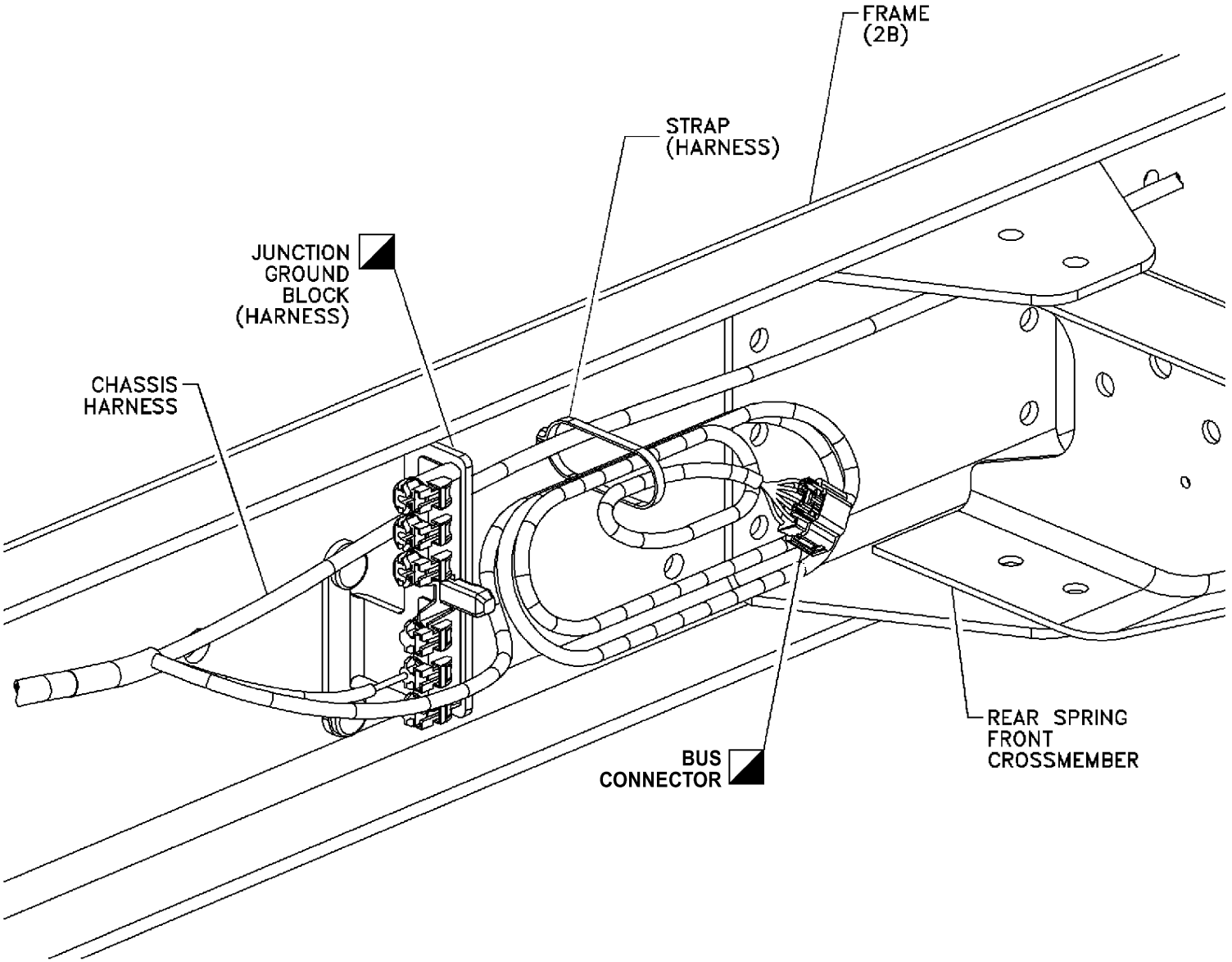


	TRUCK SIDE	BODY BUILDER SIDE
Connector	Packard MP 280 Series	
Typical connector	15300027 (F)	15300002
Typical terminal	12129493	12129497
Typical cable seal	15324980	15324980

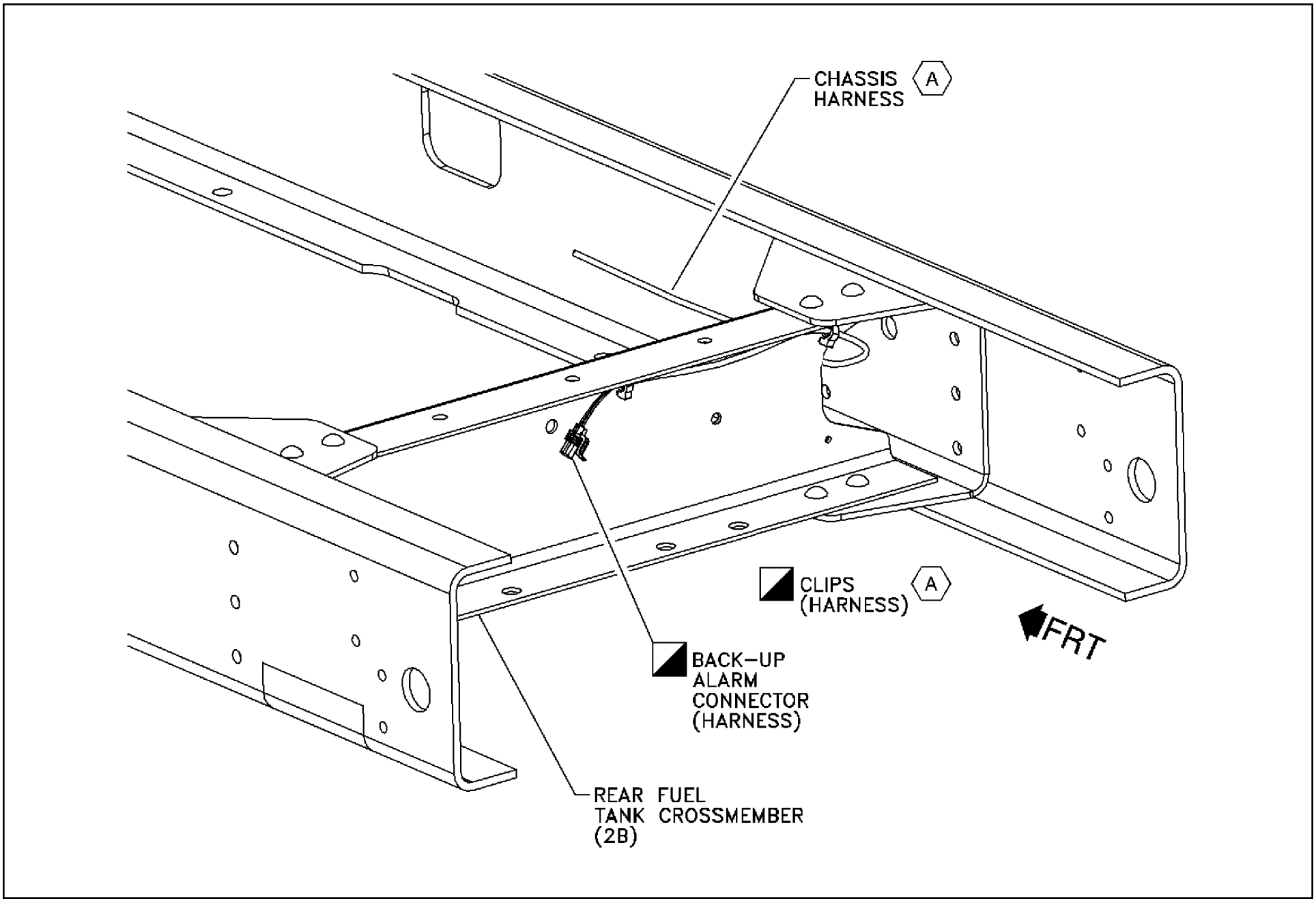
Pin	Wire		Function
	Ckt #	Color	
A	24	GRN LT	Back Up
B	350	BLK	Gnd Zone B



Bus Connector Location – Family 2



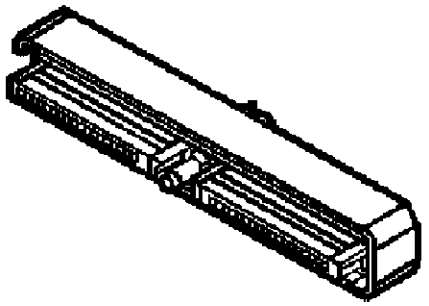
Bus Connector Location – Family 2

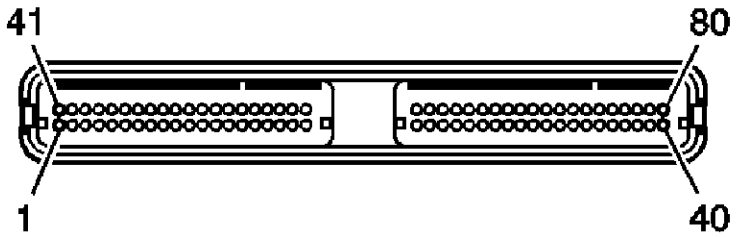


Powertrain Control Module (PCM) – Connector C-1

Connector	80-Way F Micro-Pack 100W Sealed (BU)
Typical Connector	12191489 (F)
Color	**BLU**
Typical Terminal	– – –
Typical Cable Seal	– – –

Pin	Wire Color	Circuit No.	Function
1	BK/WH	351	Ground
2	L-GN	1867	12-Volt Reference
3	PK/BK	1746	Fuel Injector 3 Control
4	L-GN/BK	1745	Fuel Injector 2 Control
5-6	—	—	Not Used
7	GY	705	5-Volt Reference
8-10	—	—	Not Used
11	L-BU	1876	Knock Sensor 2 Signal
12	D-BU/WH	1869	CKP Sensor Signal
13	OG/BK	463	Requested Torque Signal
14	OG/BK	1061	UART Serial Data (Secondary)
15	D-BU/WH	774	UART Serial Data (Tertiary)
16-18	—	—	Not Used
19	PK	439	Ignition 1 Voltage
20	OG	440	Battery Positive Voltage
21	YE/BK	1868	Low Reference
22	L-GN	488	PTO On Switch Signal
23	BK	470	Low Reference
24	BK/WH	251	Ground
25	—	—	Not Used
26	TN	1677	HO2S Low Signal - Bank 2 Sensor 1
27	BK/WH	251	Ground
28	—	—	Not Used
29	TN	1664	HO2S Low Signal - Bank 1 Sensor 1
30	L-GN	1478	Coolant Level Switch Signal
31	D-GN	534	High Idle Switch Signal





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Powertrain Control Module (PCM) – Connector C-1 (continued)

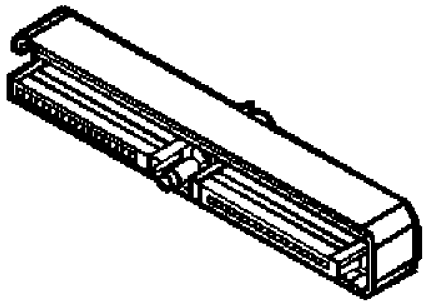
Pin	Wire Color	Circuit No.	Function
32	BK/WH	771	Transmission Range Switch Signal A (Allison® MD)
33	PU	420	TCC Brake Switch/Cruise Control Release Signal
34	WH	776	Transmission Range Switch Signal - Parity Bit (Allison® MD)
35	BN/WH	379	CPP Switch Signal (Manual Trans.)
36	BK	1744	Fuel Injector 1 Control
37	YE/BK	846	Fuel Injector 6 Control
38	—	—	Not Used
39	YE	447	Starter Relay Coil Control
40	BK/WH	351	Ground
41	PU	719	Low Reference (Manual Trans.)
42	—	—	Not Used
43	RD/BK	877	Fuel Injector 7 Control
44	L-BU/BK	844	Fuel Injector 4 Control
45-47	—	—	Not Used
48	GY	597	5-Volt Reference
49-50	—	—	Not Used
51	D-BU	496	Knock Sensor 1 Signal
52	YE	2522	PTO Engage Signal
53	—	—	Not Used
54	OG/BK	469	Low Reference
55-56	—	—	Not Used

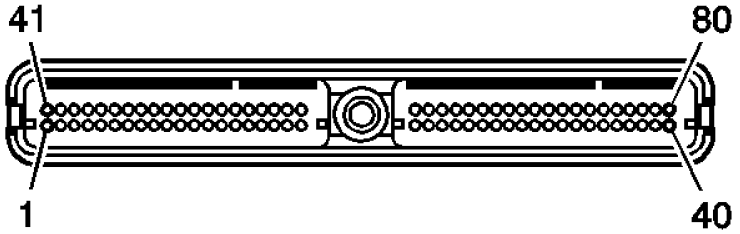
Pin	Wire Color	Circuit No.	Function
57	OG	440	Battery Positive Voltage
58	D-GN	1049	ECM/PCM/VCM Class 2 Serial Data
59-60	—	—	Not Used
61	PK/BK	632	Low Reference
62	—	—	Not Used
63	BK	407	Low Reference
64-65	—	—	Not Used
66	PU	1666	HO2S High Signal - Bank 2 Sensor 1
67-68	—	—	Not Used
69	PU/WH	1665	HO2S High Signal - Bank 1 Sensor 1
70	BN	1174	Oil Level Switch Signal
71	L-BU	494	Primary Brake Indicator Control
72	YE	772	Transmission Range Switch Signal B (Allison® MD)
73	BN/WH	633	CMP Sensor Signal
74	YE	410	ECT Sensor Signal
75	PK	1020	Off/Run/Crank Voltage
76	BK/WH	845	Fuel Injector 5 Control
77	D-BU/WH	878	Fuel Injector 8 Control
78	PU	2562	PTO Control
79	—	—	Not Used
80	GY	720	Low Reference

Powertrain Control Module (PCM) – Connector C-2

Connector	80-Way F Micro-Pack 100W Sealed (GN)
Typical Connector	12191488 (F)
Color	**GRN**
Typical Terminal	– – –
Typical Cable Seal	– – –

Pin	Wire Color	Circuit No.	Function
1	BK/WH	351	Ground
2	WH	2467	Crankshaft Sensor Supply Voltage (Allison® MD)
3	TN	1465	Fuel Pump Relay Control - Secondary
4	—	—	Not Used
5	TN/BK	464	Delivered Torque Signal (Allison® MD)
6-7	—	—	Not Used
8	—	—	Not Used
9	D-GN/WH	465	Fuel Pump Relay Control - Primary
10	WH	121	Engine Speed Signal
11-14	—	—	Not Used
15	BN	25	Charge Indicator Control
16	—	—	Not Used
17	D-GN/WH	762	A/C Request Signal
18	—	—	Not Used
19	GY/BK	1467	Air Shift Switch Signal (Allison® MD)
20	D-GN	2222	Signal Low - Rear
	—	—	Not Used
21	L-BU	2221	Signal High - Rear
22-23	—	—	Not Used
24	—	—	Not Used
25	TN	472	IAT Sensor Signal
26	PU	2121	IC 1 Control
27	RD	2127	IC 7 Control
28	L-BU/WH	2126	IC 6 Control
29	D-GN/WH	2124	IC 4 Control





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Powertrain Control Module (PCM) – Connector C-2 (continued)

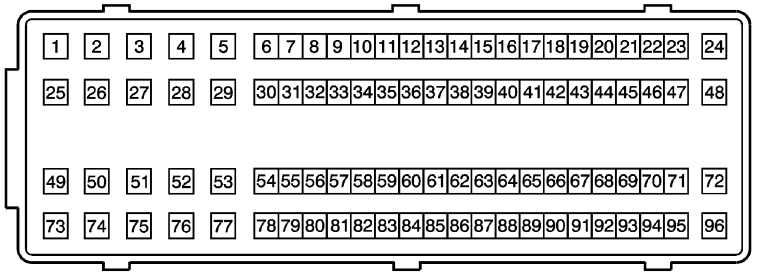
Pin	Wire Color	Circuit No.	Function
30	—	—	Not Used
31	YE	492	MAF Sensor Signal
32	L-GN	432	MAP Sensor Signal
33	—	—	Not Used
34	D-GN/WH	428	EVAP Canister Purge Solenoid Control
35-38	—	—	Not Used
39	RD	631	12-Volt Reference
40	BK/WH	351	Ground
41-42	—	—	Not Used
43	D-GN/WH	459	A/C Compressor Clutch Relay Control
44	RD	2013	High Idle Indicator Control
45	—	—	Not Used
46	BN/WH	419	MIL Control
47-48	—	—	Not Used
49	YE/BK	1827	Vehicle Speed Signal
50	D-GN/WH	817	Vehicle Speed Signal
51-53	—	—	Not Used
54	PU	1589	Fuel Level Sensor Signal - Primary
55	D-GN	603	Low Coolant Indicator Control
56	—	—	Not Used

Pin	Wire Color	Circuit No.	Function
57	BK	552	Low Reference
58	TN/WH	332	Oil Pressure Sensor Signal
59	D-GN	1433	PNP/Clutch Start Switch Signal
60	BN	2129	Low Reference
61	BN/WH	2130	Low Reference
62	GY	773	Transmission Range Switch Signal C (Allison® MD)
63-65	—	—	Not Used
66	PU/WH	2128	IC 8 Control
67	RD/WH	2122	IC 2 Control
68	D-GN	2125	IC 5 Control
69	L-BU	2123	IC 3 Control
70-71	—	—	Not Used
72	BK/WH	3213	HO2S Heater High Control - Bank 2 Sensor 1
73	D-BU	1936	Fuel Level Sensor Signal - Secondary
74	L-GN	3212	HO2S Heater Low Control - Bank 2 Sensor 1
75	GY	23	Generator Field Duty Cycle Signal
76-80	—	—	Not Used

(LG4) ECE Engine Control Module (ECM) – Connector C-1

Connector	96-Way F Bosch (BK)
Typical connector	1928404781 (F)
Color	**BLK**
Typical Terminal	– – –
Typical Cable Seal	– – –

Pin	Wire Color	Circuit No.	Function
1	BK/WH	351	Ground
2	BK/WH	351	Ground
3	BK/WH	351	Ground
4	BK/WH	351	Ground
5	BK/WH	351	Ground
6	–	–	Not Used
7	BN	1271	Low Reference
8	PU	1272	Low Reference
9	GY	1273	Low Reference
10-11	–	–	Not Used
12	BK	470	Low Reference
13-16	–	–	Not Used
17	YE	2361	SAE J1939 Serial Data Bus+
18	D-GN	2362	SAE J1939 Serial Data Bus–
19	–	–	Not Used
20	D-GN	1049	ECM Class 2 Serial Data A
21	–	–	Not Used
22	PK	1020	Ignition 0 Voltage
23	PK	439	Ignition 1 Voltage
24-25	–	–	Not Used
26	BK/WH	351	Ground
27	BK/WH	351	Ground
28	WH	121	Engine Speed Signal
29-30	–	–	Not Used
31	D-BU	1161	APP Sensor 1 Signal
32	L-BU	1162	APP Sensor 2 Signal



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(LG4) ECE Engine Control Module (ECM) – Connector C-1 (continued)

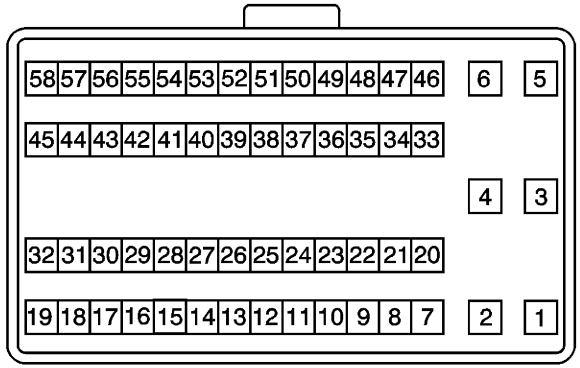
Pin	Wire Color	Circuit No.	Function
33	D-GN	1163	APP Sensor 3 Signal
34-36	—	—	Not Used
37	PU	1589	Fuel Level Signal – Primary
38	D-BU	1936	Fuel Level Signal – Secondary
39	L-BU	2221	Signal High – Rear (Manual Trans.)
	—	—	Not Used (Automatic Trans.)
40	D-GN	2222	Signal Low – Rear (Manual Trans.)
	—	—	Not Used (Automatic Trans.)
41	GY	23	Generator Field Duty Cycle Signal
42	—	—	Not Used
43	GY/BK	1467	Shift Motor Relay – Control
44	—	—	Not Used
45	D-GN/WH	459	A/C Compressor Clutch Relay Control
46	GY	397	Cruise Control On Switch Signal
47	GY/BK	87	Cruise Control Resume/Accel Switch Signal
48	D-BU	84	Cruise Control Set/Coast Switch Signal
49	BK/WH	1120	Ignition 1 Voltage
50	BK/WH	1120	Ignition 1 Voltage
51	OG	440	Battery Positive Voltage
52	L-BU	1121	ECM Power Enable Signal
53	L-BU	1121	ECM Power Enable Signal
54	WH/BK	1164	5-Volt Reference
55	TN	1274	Oil Level Switch Signal
56	YE/BK	1275	5-Volt Reference
57-61	—	—	Not Used
62	L-BU	1320	Stop Lamp Switch Signal

Pin	Wire Color	Circuit No.	Function
63	PU	420	TCC Brake Switch/Cruise Control Release Signal
64	BN/WH	379	CPP Switch Signal (Manual Trans.)
	—	—	Not Used (Automatic Trans.)
65-66	—	—	Not Used
67	L-GN	2081	Exhaust Brake Request Signal (K40/NPE)
	—	—	Not Used (w/o K40/NPE)
68	D-GN	534	High Idle Switch Signal
69	—	—	Not Used
70	L-GN	1478	Coolant Level Switch Signal
71	L-GN	24	Backup Lamp Supply Voltage
72-73	—	—	Not Used
74	YE	505	Glow Plug Relay Control
75	PU	2562	PTO Control
76	YE	447	Starter Relay Coil Control
77	PU	2656	Exhaust Brake Relay Control (K40)
	—	—	Not Used (w/o K40)
78	RD	2013	High Idle Indicator Control
79	D-BU	507	Wait to Start Indicator Control
80	BK/WH	419	MIL Control
81	D-GN/WH	817	Vehicle Speed Signal
82	YE/BK	1827	Vehicle Speed Signal
83-92	—	—	Not Used
93	L-GN	488	PTO On Switch Signal
94	L-BU	494	PTO Engine Kill Signal
95	YE	2522	PTO Engage Signal
96	D-GN	1433	PNP/Clutch Start Switch Signal

(LG4) ECE Engine Control Module (ECM) – Connector C-2

Connector	58-Way F Bosch (BK)
Typical connector	1928404752 (F)
Color	**BLK**
Typical Terminal	– – –
Typical Cable Seal	– – –
Individual Cable Seal	– – –

Pin	Wire Color	Circuit No.	Function
1	BK	B1	Turbocharger Vane Position Control Solenoid Valve High Control
2	—	—	Not Used
3	WH	B3	Fuel Injector Supply Voltage 1
4	RD	B4	Fuel Injector Supply Voltage 2
5	WH	B5	Fuel Injector Supply Voltage 1
6	RD	B6	Fuel Injector Supply Voltage 2
7	BK/WH	B7	EGR Motor U Supply Voltage
8	D-GN	B8	EGR Motor V Supply Voltage
9	RD/YE	B9	EGR Motor W Supply Voltage
10-11	—	—	Not Used
12	BK	B12A	Low Reference
13	BK	B13A	Low Reference
14	BK/YE	B14	Low Reference
15	GY	B15A	Low Reference
16	BK	B16A	Low Reference
17	WH/BK	B17	Ground
18	BK	B18A	Drain Wire
19	GY	B19	Drain Wire
20	RD	B20	SCV Low Signal
21	RD	B21	SCV Low Signal
22-23	—	—	Not Used
24	WH	B24	MAP Sensor Signal
25	WH	B25A	Fuel Pressure Sensor Signal
26	WH	B26	Fuel Pressure Sensor Signal



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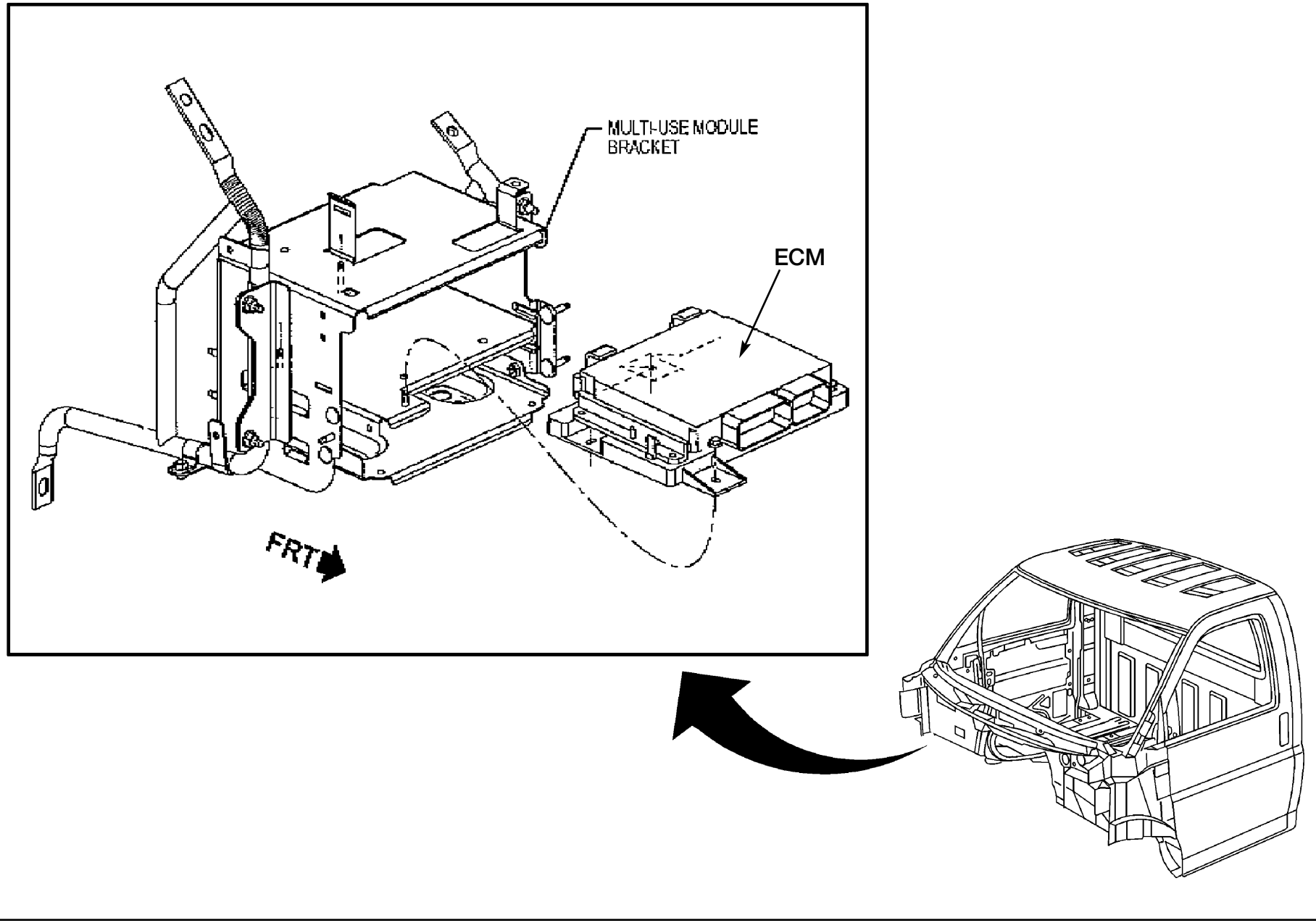
(LG4) ECE Engine Control Module (ECM) – Connector C-2 (continued)

Pin	Wire Color	Circuit No.	Function
27	GY	B27	Oil Pressure Sensor Signal
28	WH	B28	MAF Sensor Signal
29	WH	B29	Turbocharger Vane Position Signal
30	WH	B30	CMP Sensor Low
31	WH	B31	CKP Sensor High
32	BK	B32	CKP Sensor Low
33	WH	B33	SCV High Signal
34	WH	B34	SCV High Signal
35	D-BU/WH	B35	ECT Sensor Signal
36	—	—	Not Used
37	D-GN/WH	B37	IAT Sensor Signal
38	D-BU/RD	B38	EGR Motor Position U Signal
39	WH/RD	B39	EGR Motor Position V Signal
40	YE/RD	B40	EGR Motor Position W Signal
41	YE	B41	Fuel Temperature Sensor Signal

Pin	Wire Color	Circuit No.	Function
42	RD	B42	Low Reference
43	RD	B43	Fuel Injector 6 Control
44	BK	B44	Fuel Injector 4 Control
45	BK/RD	B45	Fuel Injector 5 Control
46	RD	B46	5-Volt Reference
47	RD	B47	5-Volt Reference
48	WH	B48	5-Volt Reference
49	WH	B49	5-Volt Reference
50	RD	B50	5-Volt Reference
51	RD	B51	5-Volt Reference
52	D-GN	B52	Oil Level Switch Signal
53-55	—	—	Not Used
56	WH	B56	Fuel Injector 3 Control
57	D-BU	B57	Fuel Injector 2 Control
58	YE	B58	Fuel Injector 1 Control

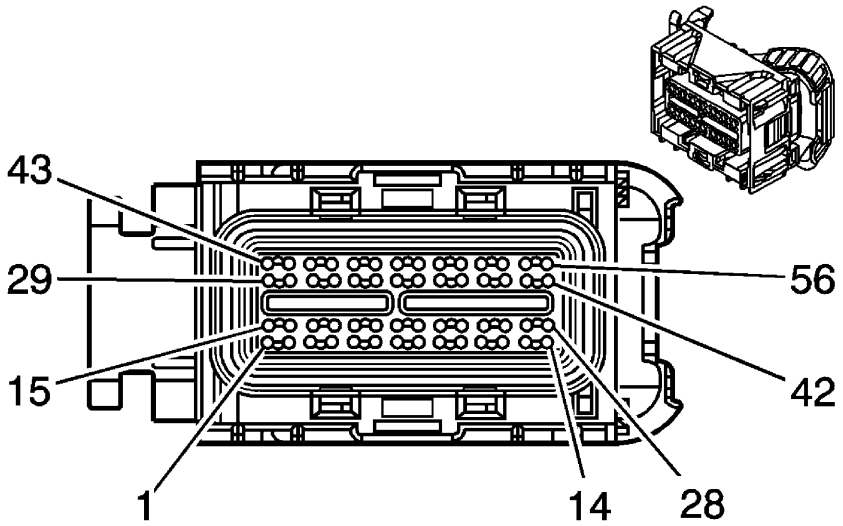
(LG4) ECE Engine Control Module (ECM) Location



(LLY) Engine Control Module (ECM) – Connector C-1

Connector	56-Way F Micro-Pack 64 Series (BU)
Typical connector	15463876 (F)
Color	**BLU**
Typical Terminal	– – –
Typical Cable Seal	– – –

Pin	Wire Color	Circuit No.	Function
1	YE	2361	SAE J1939 Serial Data Bus+
2	D-GN	2362	SAE J1939 Serial Data Bus–
3-4	—	—	Not Available
5	OG	440	Battery Positive Voltage
6	—	—	Not Available
7	OG/BK	1057	Low Reference
8	PK/BK	632	Low Reference
9	BK/WH	351	Ground
10	PK	439	Ignition 1 Voltage
11	—	—	Not Available
12	D-GN	534	High Idle Switch Signal
13	YE	492	MAF Sensor Signal
14	BN/WH	5763	EGR Valve Position Signal
15	D-GN	1049	ECM Class 2 Serial Data
16	—	—	Not Available
17	TN	1274	5-Volt Reference
18	PK	1020	Ignition 0 Voltage
19	PK	439	Ignition 1 Voltage
20	OG	440	Battery Positive Voltage
21-22	—	—	Not Available
23	TN	5928	5-Volt Reference
24-25	—	—	Not Available
26	D-BU	507	Wait to Start Indicator Control
27	—	—	Not Available
28	L-BU	1162	APP Sensor 2 Signal
29	—	—	Not Available



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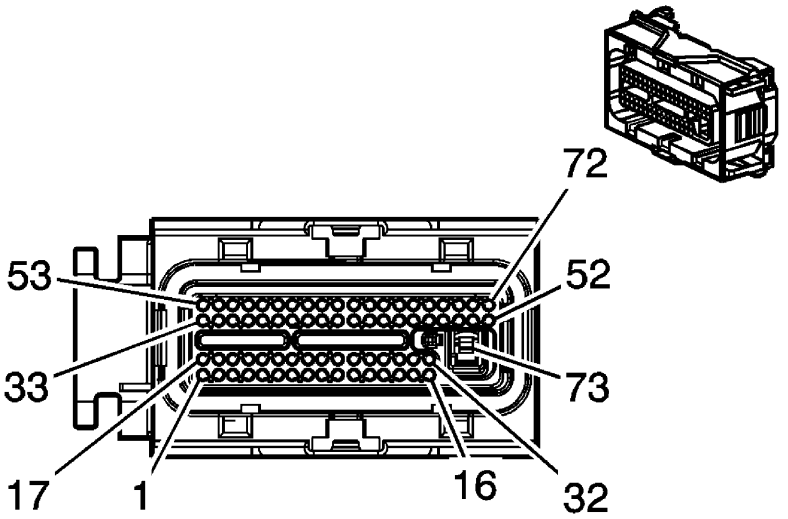
(LLY) Engine Control Module (ECM) – Connector C-1 (continued)

Pin	Wire Color	Circuit No.	Function
30	PU	1589	Fuel Level Sensor Signal – Primary
31	WH/BK	2932	5-Volt Reference
32	WH/BK	1164	5-Volt Reference
33	TN	2917	5-Volt Reference
34	GY	2705	5-Volt Reference
35	—	—	Not Available
36	YE/BK	1275	5-Volt Reference
37	YE	2834	Fuel Pressure Regulator Solenoid Control
38	—	—	Not Available
39	GY	597	5-Volt Reference
40	PU/WH	2530	Fuel Pressure Regulator Solenoid Supply Voltage
41	GY	23	Generator Field Duty Cycle Signal
42	PK	339	Ignition 1 Voltage
43	D-BU	1936	Fuel Level Sensor Signal – Secondary
44	D-GN/WH	465	Fuel Pump Relay Control – Primary
45	PU	2656	Engine Exhaust Brake Restore Request (K40/NPE)
	—	—	Not Used (w/o K40/NPE)
46	YE/BK	1827	Vehicle Speed Signal
47	GY	2703	5-Volt Reference
48-49	—	—	Not Available
50	RD	631	12-Volt Reference
51	YE	2834	Fuel Pressure Regulator Solenoid Control
52	GY	2219	IGN B Relay Control
53	D-GN/WH	817	Vehicle Speed Signal
54	PU/WH	2530	Fuel Pressure Regulator Solenoid Supply Voltage
55	—	—	Not Available
56	PK	339	Ignition 1 Voltage

(LLY) Engine Control Module (ECM) – Connector C-2

Connector	73-Way F Micro-Pack 64 Series (BK)
Typical connector	15479342 (F)
Color	**BLK**
Typical Terminal	– – –
Typical Cable Seal	– – –

Pin	Wire Color	Circuit No.	Function
1	–	–	Not Available
2	OG/BK	2919	Low Reference
3	–	–	Not Available
4	BN	25	Charge Indicator Control
5-6	–	–	Not Available
7	GY/BK	1694	4WD Low Signal (NP1)
	–	–	Not Used (w/o NP1)
8	BK	2754	Low Reference
9-10	–	–	Not Available
11	L-GN	2081	Engine Exhaust Brake Switch Control
12-13	–	–	Not Available
14	GY	720	Low Reference
15-16	–	–	Not Available
17	YE/BK	508	Water In Fuel Indicator Control
18	–	–	Not Available
19	D-BU	1161	APP Sensor 1 Signal
20-22	–	–	Not Available
23	L-GN	432	MAP Sensor Signal
24	D-GN	1163	APP Sensor 3 Signal
25	TN/WH	332	Oil Pressure Sensor Signal
26	BN	1174	Oil Level Switch Signal
27	YE	1578	Fuel Temperature Signal
28	L-GN	1867	12-Volt Reference
29	GY/BK	2931	Ground
30	OG/BK	469	Low Reference
31	YE	5947	Turbocharger Vane Position Sensor Signal



(continued on next page)

(LLY) Engine Control Module (ECM) – Connector C-2 (continued)

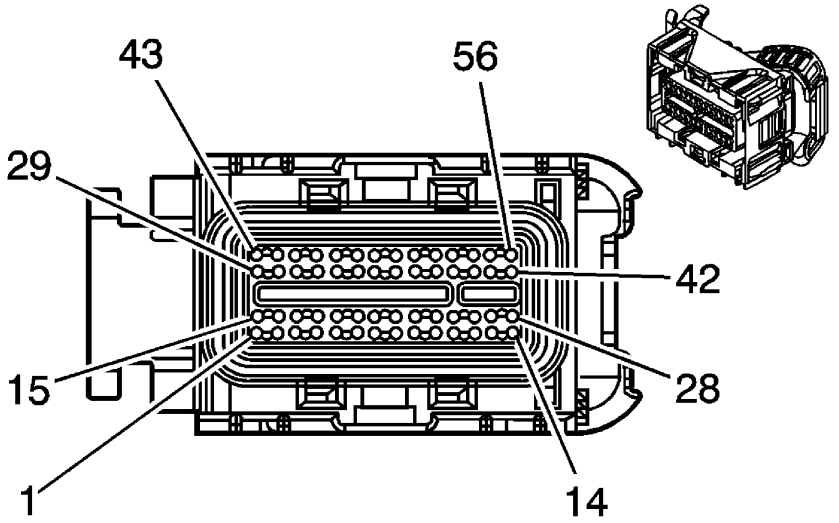
Pin	Wire Color	Circuit No.	Function
32	—	—	Not Available
33	OG/BK	5764	EGR Motor High Control
34	D-GN	603	A/C Low Pressure Switch Signal
35	L-GN/BK	5746	EGR Motor Low Control
36	BK/WH	351	Ground
37	—	—	Not Available
38	L-GN	1478	Coolant Level Switch Signal
39	BK	2755	Low Reference
40	BN	1271	Low Reference
41	—	—	Not Available
42	YE	2918	FRP Sensor Signal
43	—	—	Not Available
44	OG/BK	5929	Low Reference
45	—	—	Not Available
46	GY/BK	433	BARO Sensor Signal
47-48	—	—	Not Available
49	D-BU	5930	Turbocharger Vane Position Control Solenoid Valve Control
50	WH	5931	Low Reference
51	—	—	Not Available
52	PK/BK	1746	Fuel Injector 3 Control
53	OG/BK	5764	EGR Motor High Control

Pin	Wire Color	Circuit No.	Function
54	PU	1272	Low Reference
55	L-GN/BK	5746	EGR Motor Low Control
56	GY	1273	Low Reference
57	BN	2524	Generator 2 Turn On Signal (K65)
	—	—	Not Used (w/o K65)
58	BK	552	Low Reference
59	—	—	Not Available
60	L-BU	1320	Stop Lamp Supply Voltage
61	PU	420	TCC Brake Switch/Cruise Control Release Signal
62	—	—	Not Available
63	L-BU	2832	Engine Speed Signal
64	BK	470	Low Reference
65	L-GN/BK	1745	Fuel Injector 2 Control
66	RD/BK	877	Fuel Injector 7 Control
67	YE	410	ECT Sensor Signal
68	D-BU/WH	878	Fuel Injector 8 Control
69	L-BU/BK	844	Fuel Injector 4 Control
70	BK/WH	845	Fuel Injector 5 Control
71	YE/BK	846	Fuel Injector 6 Control
72	BK	1744	Fuel Injector 1 Control
73	BK/WH	351	Ground

(LLY) Engine Control Module (ECM) – Connector C-3

Connector	56-Way F Micro-Pack 64 Series (GY)
Typical connector	15463875 (F)
Color	**GRY**
Typical Terminal	– – –
Typical Cable Seal	– – –

Pin	Wire Color	Circuit No.	Function
1	L-BU	494	Engine Shut Off Signal
2-5	–	–	Not Available
6	L-GN	488	PTO On Switch Signal (PTO)
	–	–	Not Used (w/o PTO)
7	BK/WH	1962	Exhaust Brake Telltale Switch Signal (K40)
	–	–	Not Used (w/o K40)
8-9	–	–	Not Available
10	PK	339	Ignition 1 Voltage
11	–	–	Not Available
12	L-BU	2221	VSS High Signal
13	–	–	Not Available
14	PK	339	Ignition 1 Voltage
15-16	–	–	Not Available
17	YE	2522	PTO Engage Signal (PTO)
	–	–	Not Used (w/o PTO)
18	D-GN	1433	PNP/Clutch Start Switch Signal
19	D-BU	84	Cruise Control Set/Coast Switch Signal
20	D-GN/WH	762	A/C Request Signal
21	–	–	Not Available
22	GY/BK	87	Cruise Control Resume/Accel Switch Signal
23	D-GN	2222	VSS Low Signal (Manual Trans.)
	–	–	Not Used (Automatic Trans.)
24	TN	472	IAT Sensor Signal
25-29	–	–	Not Used
30	GY	397	Cruise Control On Switch Signal

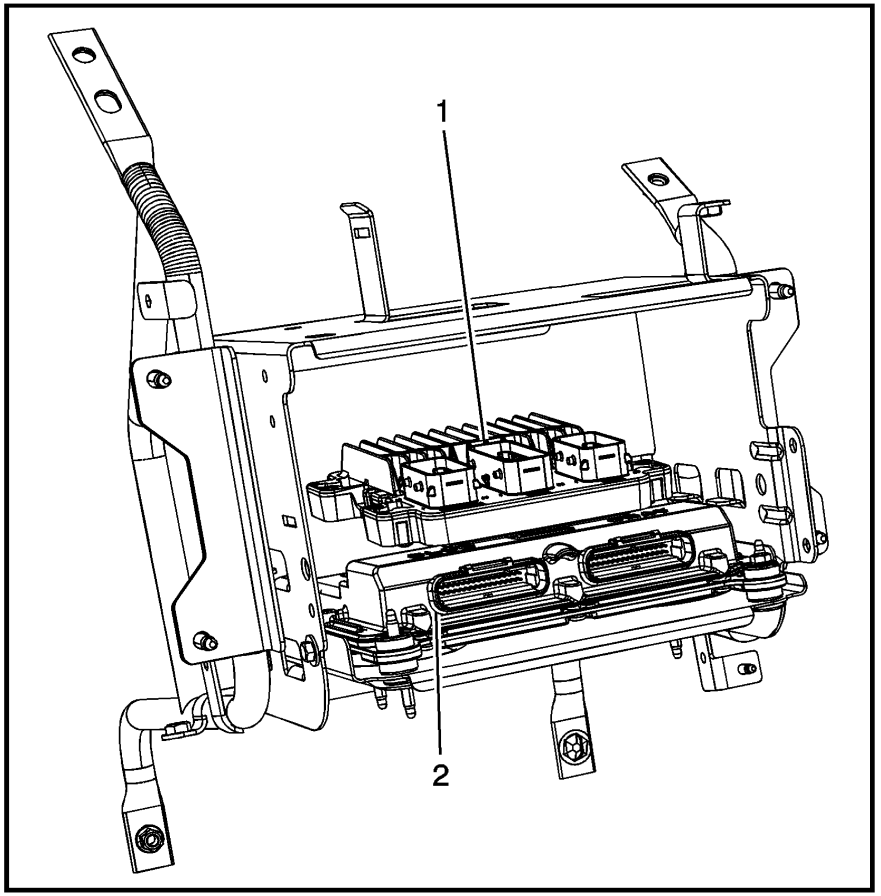


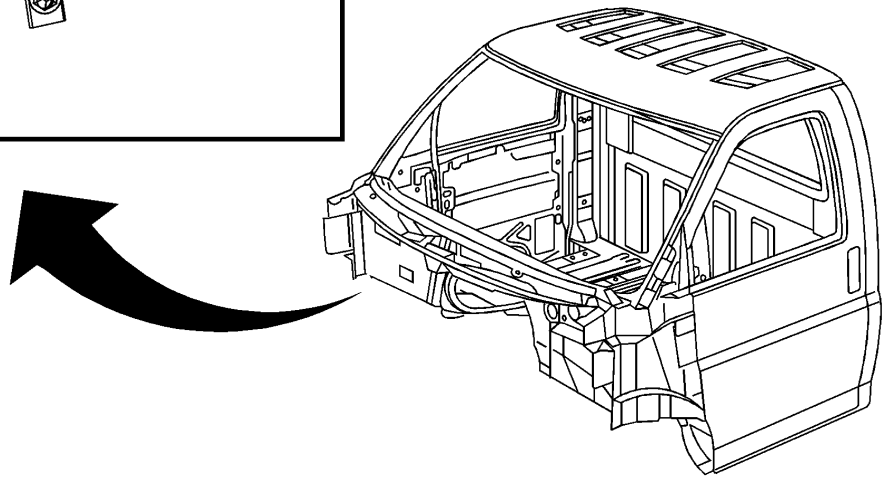
(continued on next page)

(LLY) Engine Control Module (ECM) – Connector C-3 (continued)

Pin	Wire Color	Circuit No.	Function
31	OG/BK	1786	Park/Neutral Signal (Automatic Trans.)
	—	—	Not Used (Manual Trans.)
32-34	—	—	Not Available
35	YE	447	Starter Relay Coil Control
36	—	—	Not Available
37	WH	121	Engine Speed Signal
38	—	—	Not Available
39	PU	2562	PTO Control
40	BK/WH	419	MIL Control
41	D-GN/WH	459	A/C Compressor Clutch Relay Control
42	—	—	Not Available
43	YE/BK	1868	Low Reference
44	BK/WH	351	Ground
45	L-GN	24	Backup Lamp Supply Voltage
46	—	—	Not Available
47	BN/WH	379	CPP Switch Signal (Manual Trans.)
	—	—	Not Used (Automatic Trans.)
48	BN	718	Low Reference
49-50	—	—	Not Available
51	BN/WH	633	CMP Sensor Signal
52	D-BU/WH	1869	CKP Sensor Signal
53	—	—	Not Available
54	—	—	Not Used
55	—	—	Not Available
56	RD	2013	High Idle Indicator Control

(LLY) Engine Control Module (ECM) Location



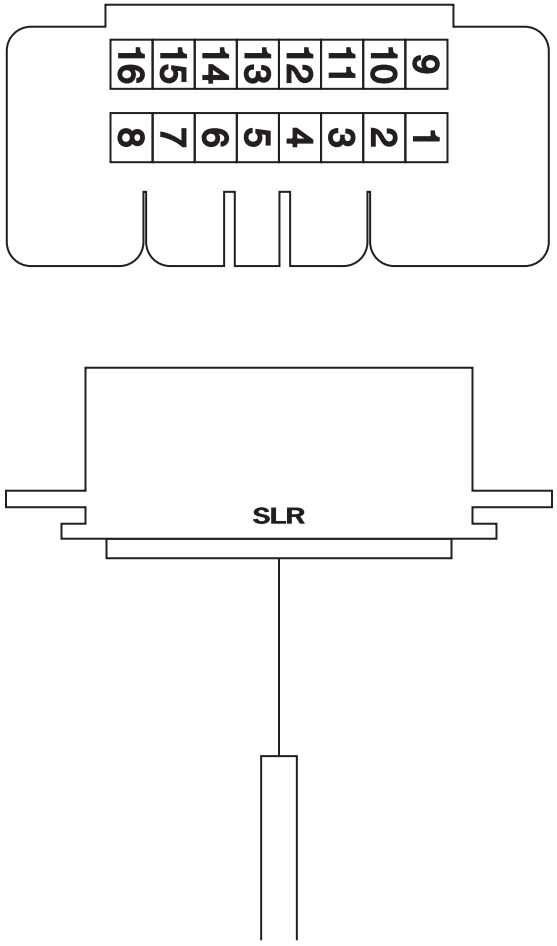


(1) Engine Control Module (ECM)
(2) Transmission Control Module (TCM)

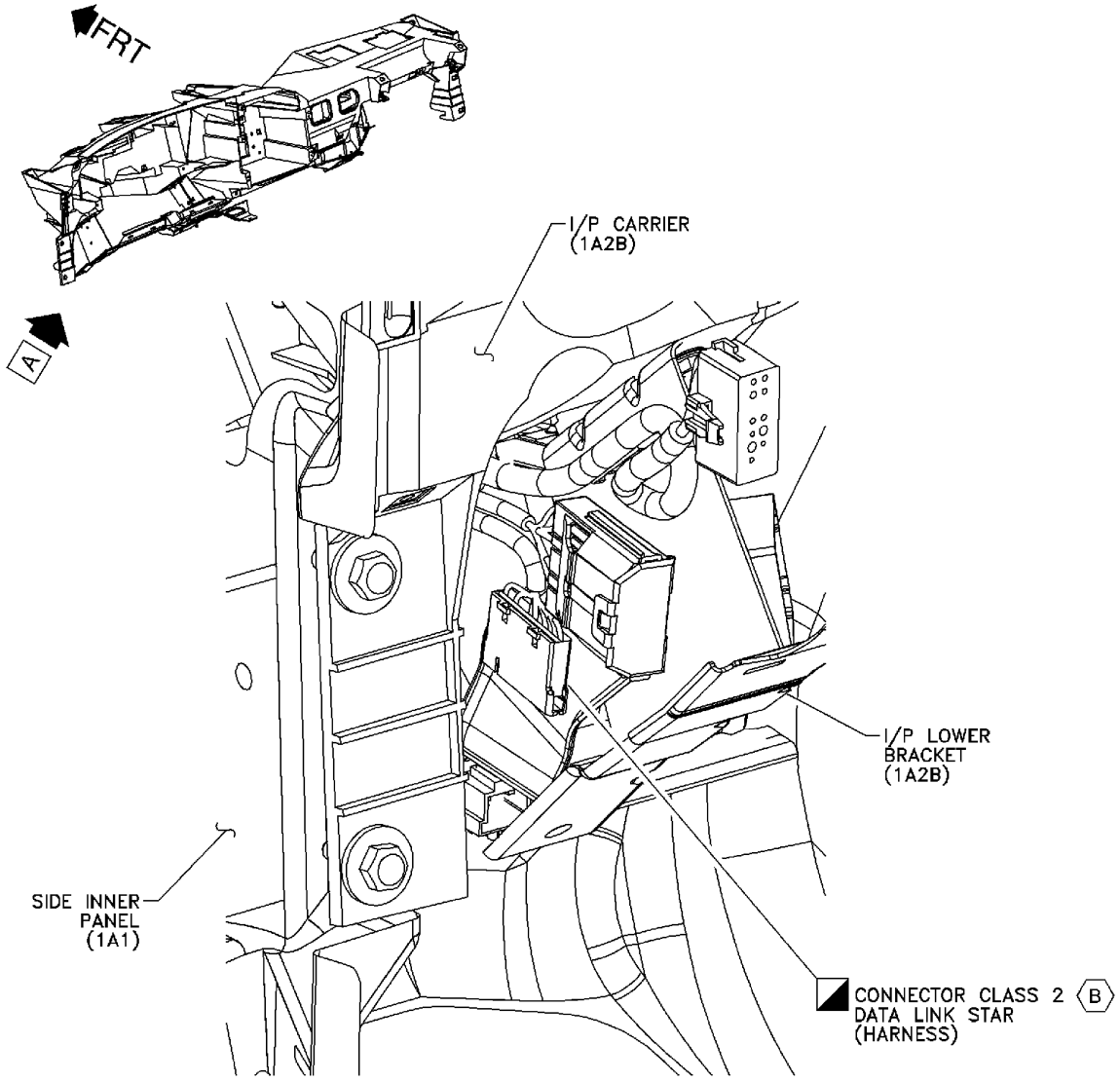
16-Way Serial Data Link Connector

Connector	Packard 150 MP Series
Typical connector	12110256
Typical terminal	12040993

Pin	Wire		Function
	Ckt #	Color	
1	—	—	Spare
2	1132	PPL	Right Park
3	—	—	Left Turn
4	750	BLK	Left Park
5	1451	BLK/WHT	Stop
6	—	—	Spare
7	1921	TAN/BLK	Spare
8	1455	BLK/WHT	Gnd Zone 3B
9	—	—	Spare
10	—	—	Spare
11	—	—	Spare
12	—	—	Spare
13	—	—	Spare
14	—	—	Spare
15	1922	WHT/BLK	DTC J1708 / J1587(-)
16	840	ORN	DLC Power



Serial Data Link Connector Location

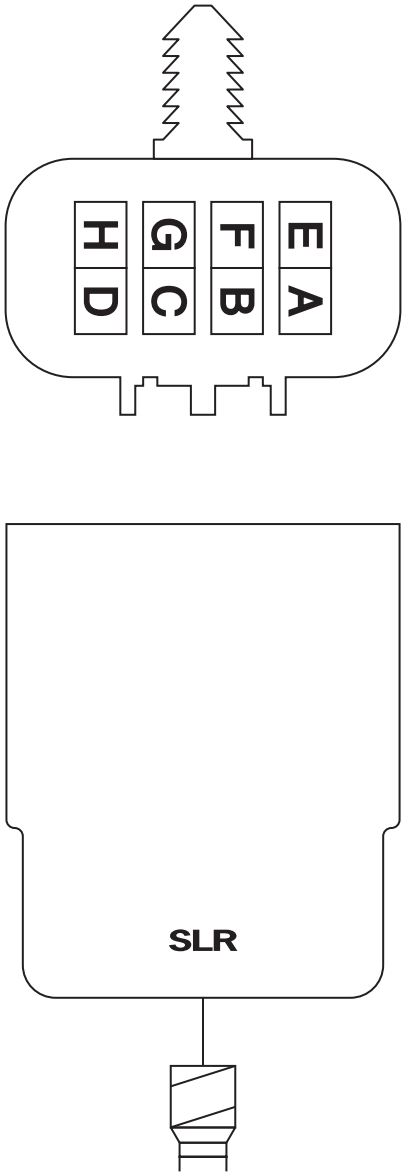


VIEW A

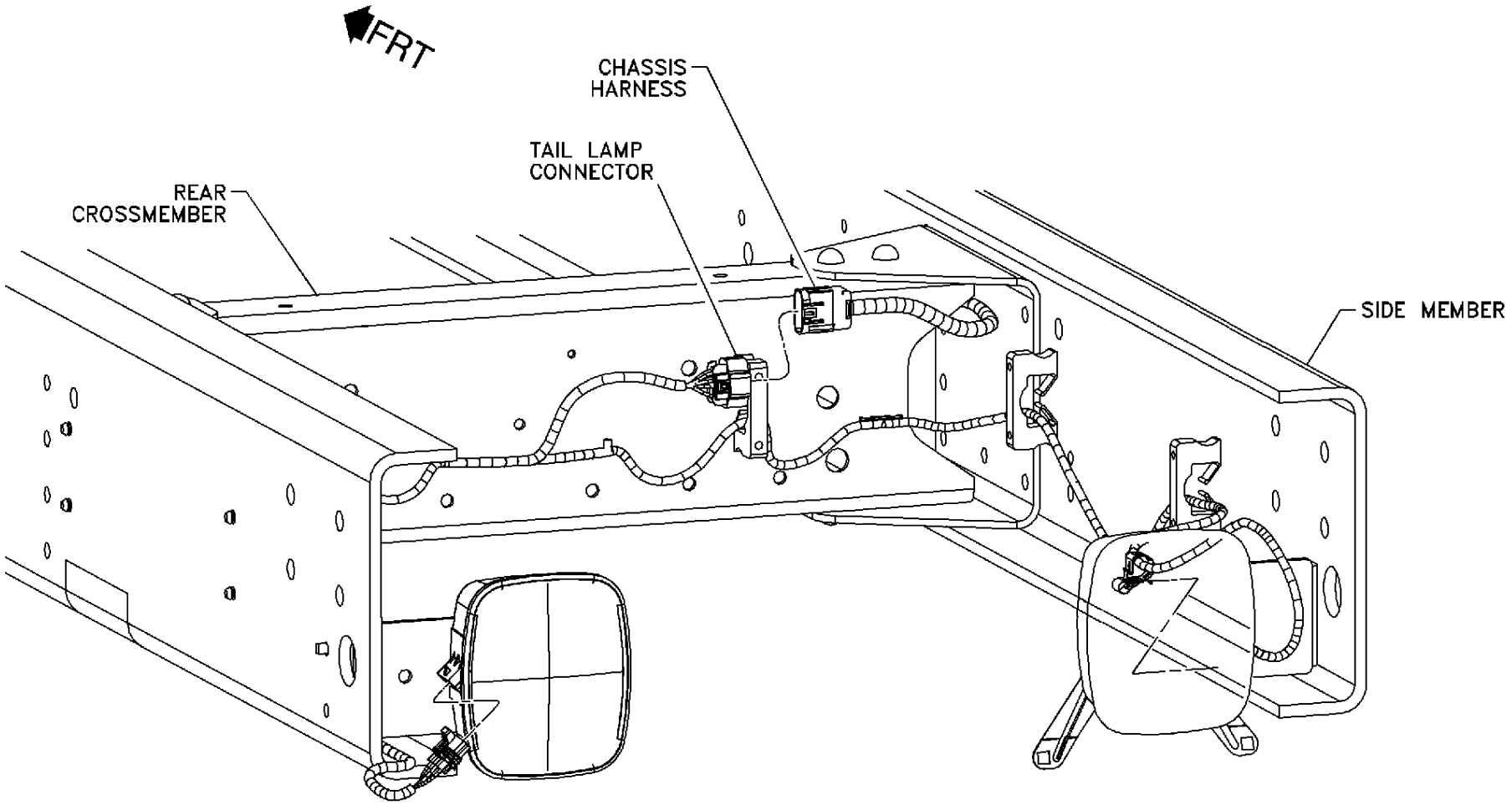
8-Way Tail Lamp Connector

	TRUCK SIDE	BODY BUILDER SIDE
Connector	Packard 280 Series	
Typical connector	15326906 (F)	15326655 (M)
Typical terminal	15304718	15304730
Typical cable seal	12191232	12191232

Pin	Wire		Function
	Ckt #	Color	
A	618	YEL	LR Stop/Turn
B	2609	BRN	Lt Tail / License
C	TBD	—	Spare
D	2609	BRN/WHT	RT Tail
E	619	GRN DK	RR Stop/Turn
F	24	GRN LT	Back Up
G	350	BLK	Gnd Zone 3B
H	TBD	—	Spare



Tail Lamp Connector Location

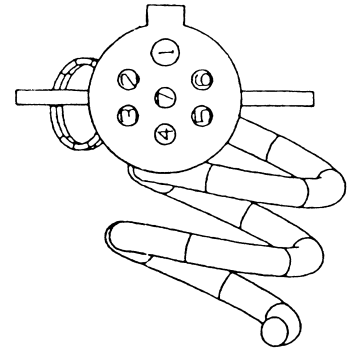


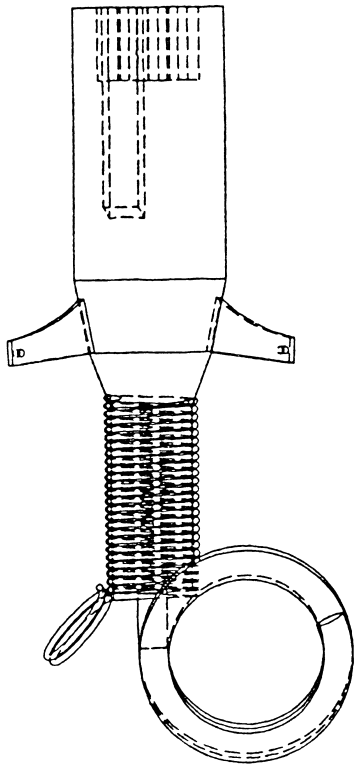
7-Way Tractor Connector – Family 3

Connector	Packard 280/630 Series	
connector	12077629	
terminal	15304720	3mm
seal	15366065	5mm
terminal	15326004	3mm
seal	12191235	5mm

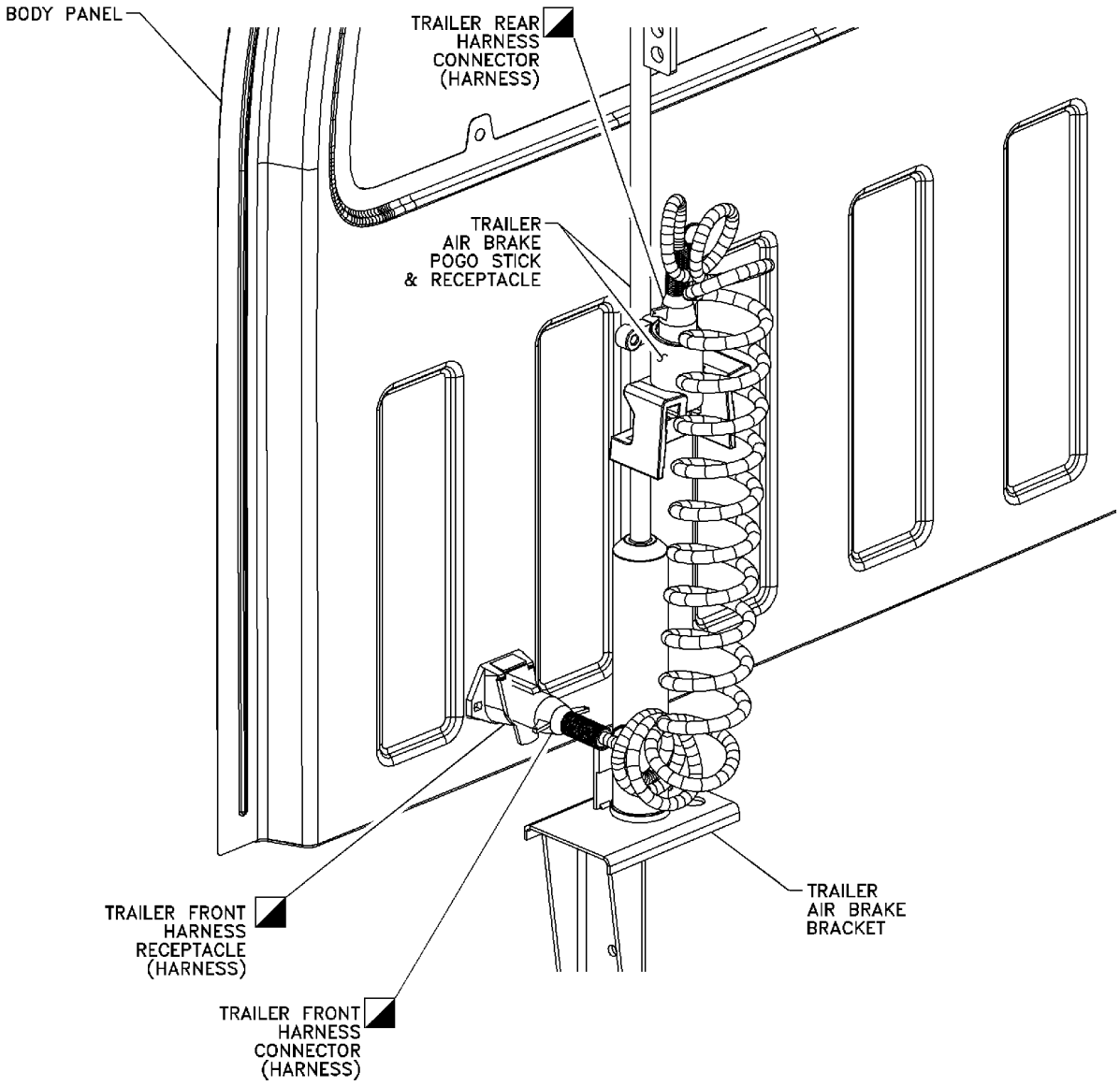
Pin	Wire		Function
	Ckt #	Color	
1	22	WHT	Tractor Gnd Zone 7B
2	1412	BLK	Marker Lamp
3	318	YEL	Lt Turn/Hazard
4	1411	RED	Brake (1)
5	319	GRN DK	Rt Turn/Hazard
6	9	BRN	Park Lamp
7	1413	BLU DK	ABS Power & Multiplexed Signal

NOTES:
(1) 30A maxi fuse. See page B-4.





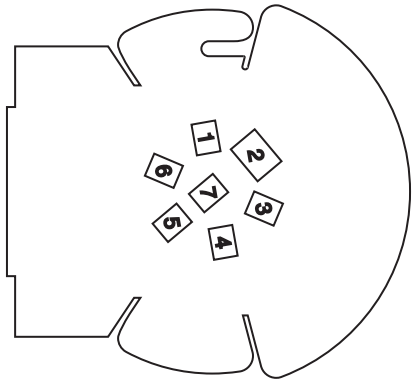
Tractor Connector – Family 3 Location

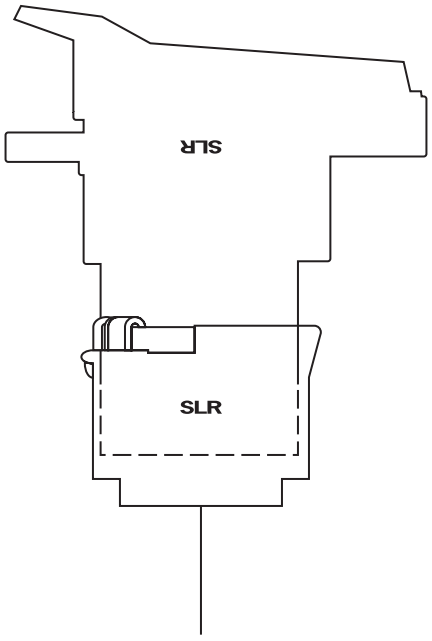

BODY PANEL
TRAILER REAR HARNESS CONNECTOR (HARNESS)
TRAILER AIR BRAKE POGO STICK & RECEPTACLE
TRAILER AIR BRAKE BRACKET
TRAILER FRONT HARNESS RECEPTACLE (HARNESS)
TRAILER FRONT HARNESS CONNECTOR (HARNESS)

7-Way Trailer Connector – Family 2

Connector	Packard 280/630 Series	
connector	15354653	
terminal	12119853	3mm
terminal	15317332	5mm
seal	12015323	

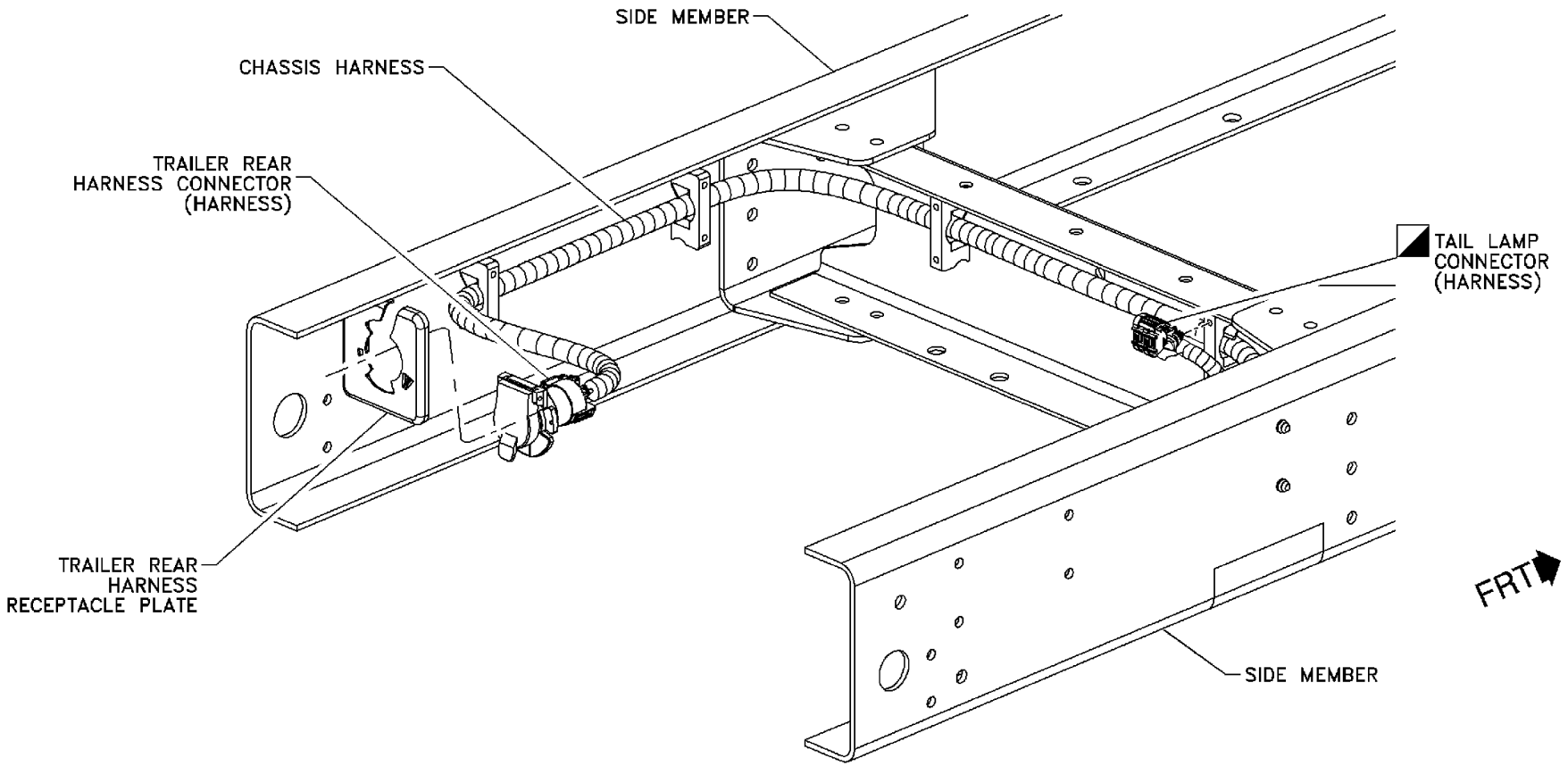
Pin		Wire		Function
		Ckt #	Color	
7	A	24	GRN LT	Back Up
2	B	22	WHT	Tractor Gnd Zone 12A
3	C	47	BLU DK	Aux Elec Brake (1)
4	D	319	GRN DK	Rt Turn/Hazard
5	E	642	RED	Electric Brake Power (2)
6	F	9	BRN	Park Lamp
1	G	318	YEL	Lt Turn/Hazard





NOTES:
(1) Blunt cut end found under hood. See UI Bulletin #66.
(2) 30A maxi fuse. See page B-4.

Trailer Connector – Family 2 Location

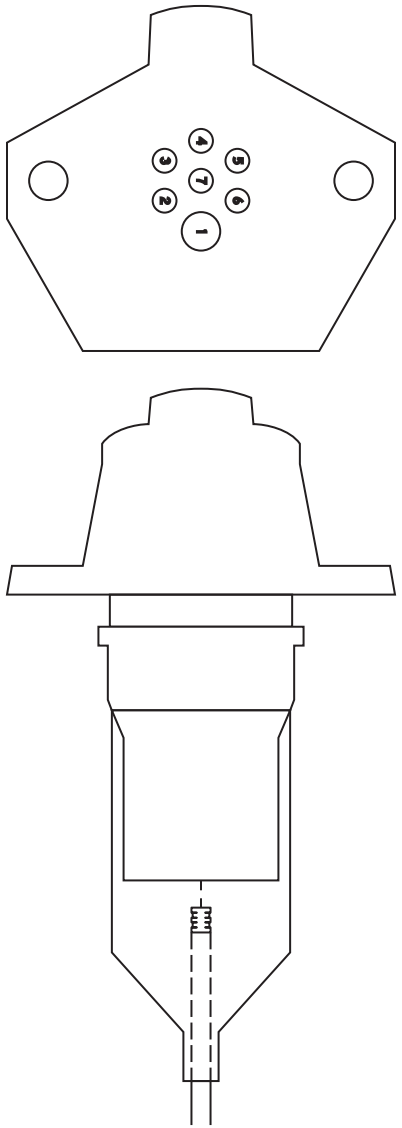


7-Way Trailer Connector – Family 3

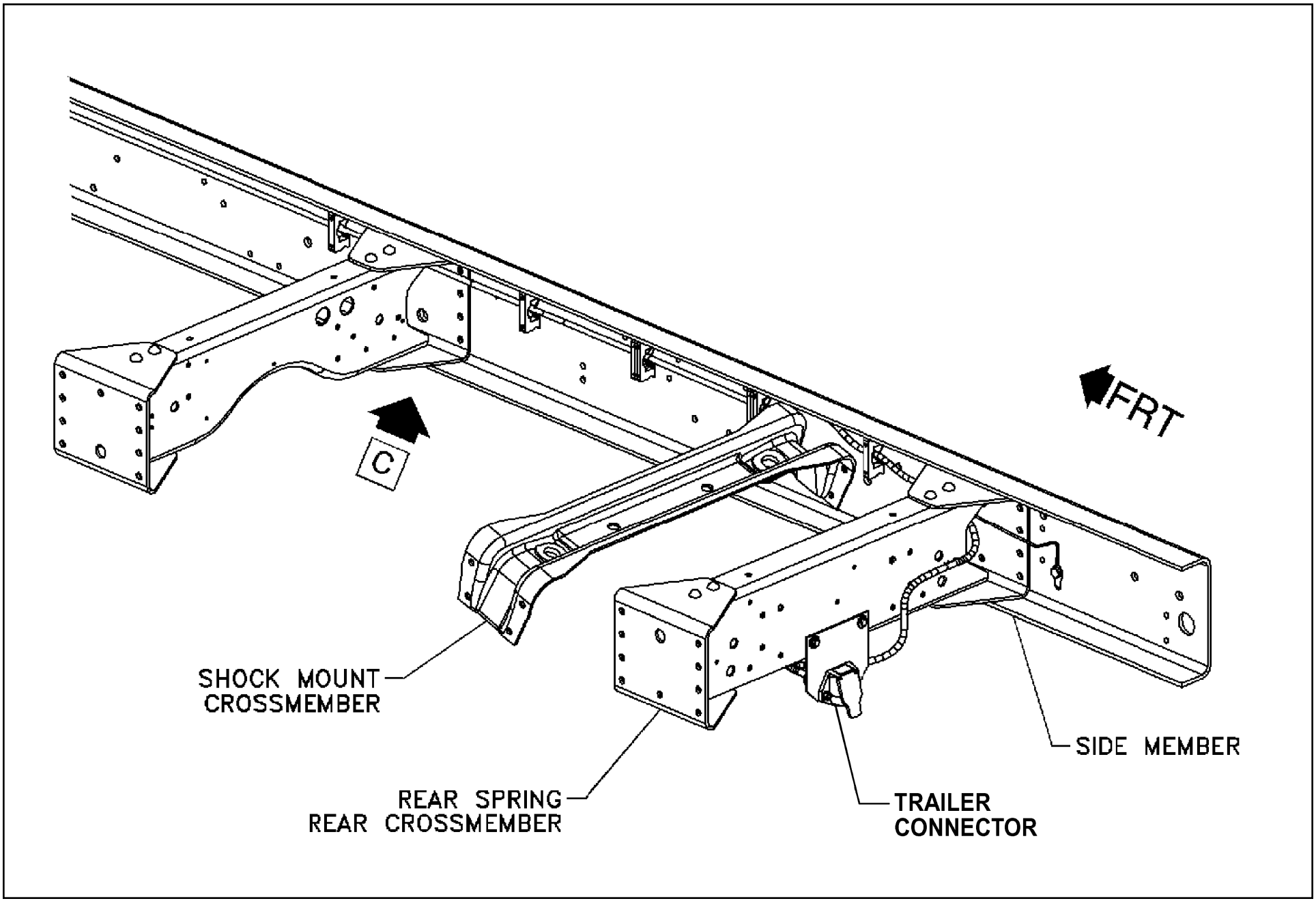
Connector	Packard 280/630 Series	
connector	12077629	
terminal	15304720	3mm
seal	15366065	5mm
terminal	15326004	3mm
seal	12191235	5mm

Pin	Wire		Function
	Ckt #	Color	
1	22	WHT	Tractor Gnd Zone 12B
2	1412	BLK	Marker Lamp
3	318	YEL	Lt Turn/Hazard
4	1411	RED	Brake (1)
5	319	GRN DK	Rt Turn/Hazard
6	9	BRN	Park Lamp
7	1413	BLU DK	ABS Power & Multiplexed Signal

NOTES:
(1) 30A maxi fuse. See page B-4.



Trailer Connector – Family 3 Location

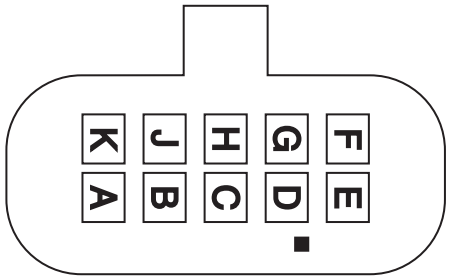


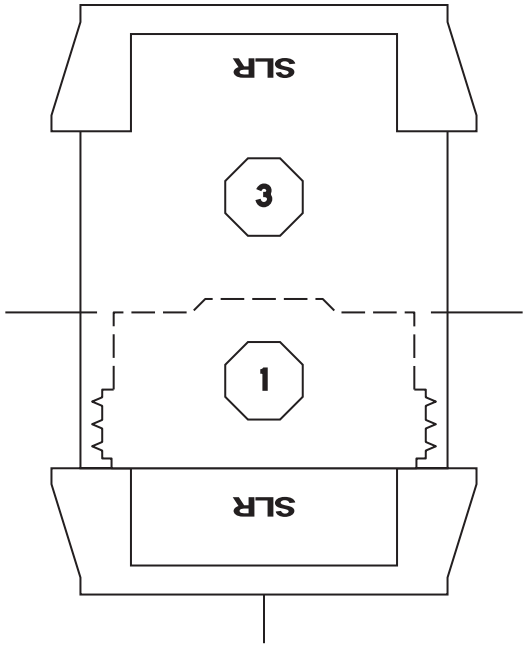
10-Way Transmission Optional Connector

	TRUCK SIDE	BODY BUILDER SIDE
Typical connector	12065425 (F)	12045808 (M)
Typical terminal	12048074	12177150
Typical cable seal	12048086	15324973

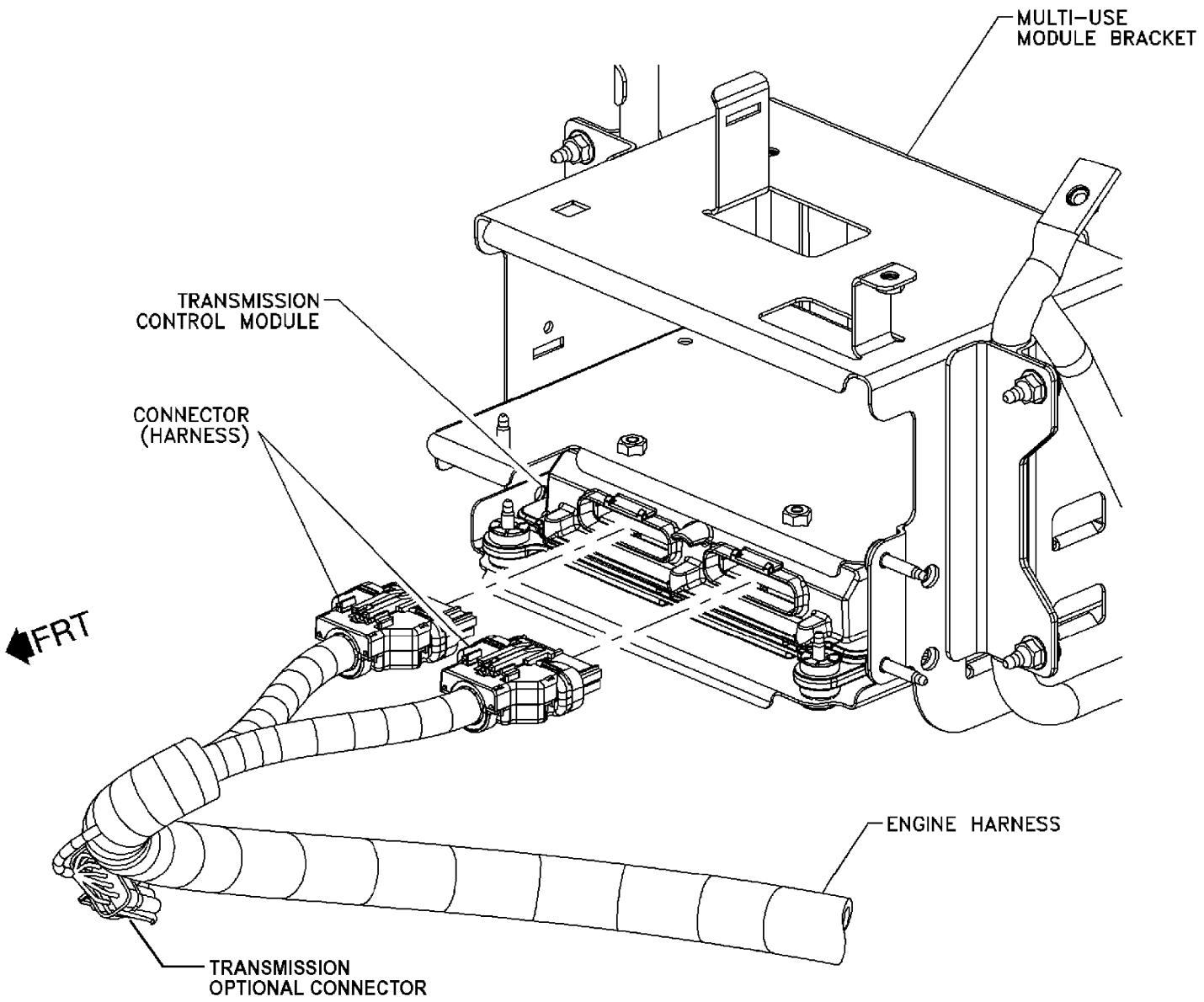
ALLISON LCT TRANS			
Pin	**Wire**		**Function**
	Ckt #	**Color**	
A	1146	PPL	Range Indicator
B	1479	YEL	Auto Neutral
C	2522	YEL	PTO Status
D	N/C	—	—
E	N/C	—	—
F	1147	TAN	Range Inhibit
G	N/C	—	—
H	407	BLK	Analog Gnd
J	476	BLK	Digital Gnd
K	1480	BLU LT	PTO Output

ALLISON MD TRANS			
A	1146	PPL	Range Indicator
B	1479	YEL	Auto Neutral
C	915	YEL	PTO Enable
D	1481	YEL	Aux Hold
E	1148	GRA	Sump Temp
F	1147	TAN	Range Inhibit
G	N/C	—	—
H	407	BLK	Analog Gnd
J	476	BLK	Digital Gnd
K	1480	BLU LT	PTO Engage





Transmission Optional Connector Location



10-Way Upfitter PTO Connector

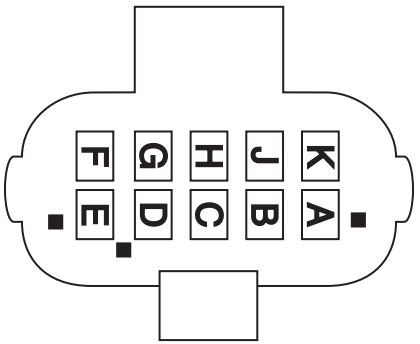
	TRUCK SIDE	BODY BUILDER SIDE
Typical connector	12177081 (F)	12045808 (M)
Typical terminal	15305038	12177150
Typical cable seal	15324976	15324976

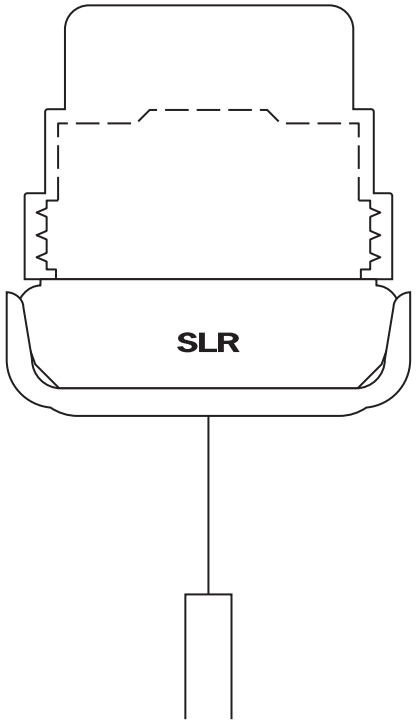
L18/LLY/LG4

Pin	Wire		Function
	Ckt #	Color	
A	N/C	—	—
B	494	BLU LT	PTO Kill
C	488	GRN LT	PTO Enable
D	250	BLK	GND
E	2663	PPL	Tap Up
F	488	GRN LT	PTO Enable
G	2522	YEL	PTO Feedback
H	2561	WHT	Engage
J	2664	TAN	Tap Down
K	N/C	—	—

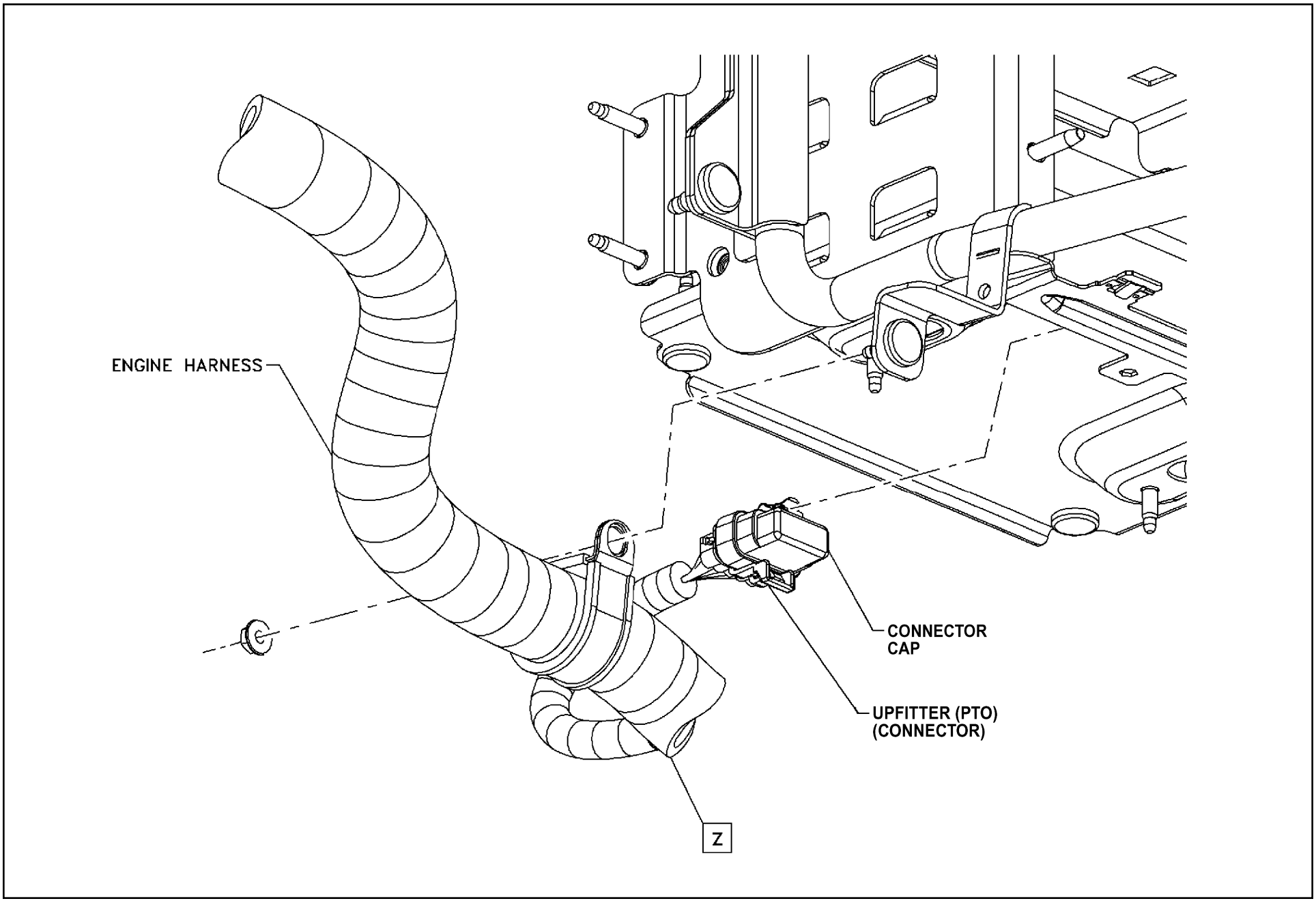
LG5

A	250	BLK	GND
B	494	BLU LT	PTO Kill Switch
C	2664	TAN	Tap Down
D	451	BLK/WHT	Engine GND
E	451	BLK/WHT	Engine GND
F	2663	PPL	Tap Up
G	2522	YEL	FEED BACK
H	2561	WHT	Engage
J	451	BLK/WHT	GND
K	N/C	—	—





Upfitter PTO Connector Location



2005 MEDIUM DUTY C SERIES ELECTRICAL

Schematic Description and Navigation Instructions

Background

The Schematics included in this document are part of GM's IVED drawing system. These are the official drawings used to develop vehicle programs, produce wire harnesses and develop service documentation. The following information is offered to help you understand how they are organized and how to use them.

Organization

It's impossible to put all the information on only one drawing. The vehicle is broken down by subsystem. The schematics are organized by subsystem number not by name. That's why the index doesn't follow an alphabetical order of the subsystems.

A number has been added on the bottom right of each page that indicates the subsystem number, revision level, and page number.

Example:

The first sheet is **h53010a_002_01** *(see page D-3)*

h53010a_002_01	The "*h53010a"* is the Object ID on the drawing and represents the sub-system.
h53**010**a_002_01	The "*010"* represents the sub-system, in this case Power Distribution. Other examples are "014" for Ground Distribution and "020" for Engine Controls.
h53010**a**_002_01	The "*a*" represents the first or only drawing for that sub-system. In this case multiple Power Distribution Schematics are included. "a" is for L18, "b" for LG4, "c" for LG5, and "d" for LLY engines.
h53010a_**002**_01	The "*002*" represents the revision level and is not important for most of your needs.
h53010a_002_**01**	The "*01*" represents panel set one on the schematic and indicates the page number. This Schematic has nine pages for example.

Navigation

Every wire in the vehicle is given a unique circuit number. These numbers are indicated on the schematics in bold type next to the wire. An entire subsystem usually can't be represented by only one page. How do you determine where a wire is connected to once it leaves the page? Either the signal is connected somewhere else in the same subsystem or it goes to another subsystem.

(continued on next page)

(Overview — continued from previous page)

Arrows and "Home" Plates

An Arrow is used to indicate that the signal stays within the same subsystem. The schematic indicates the circuit number and (page #) next to the arrow. A pointed arrow (→) points to where it's going to. A receiving arrow (➤—) shows what page it came from.

A "Baseball Home Plate" ⬡ or ⬠ indicates that the signal goes to another subsystem.

Example:

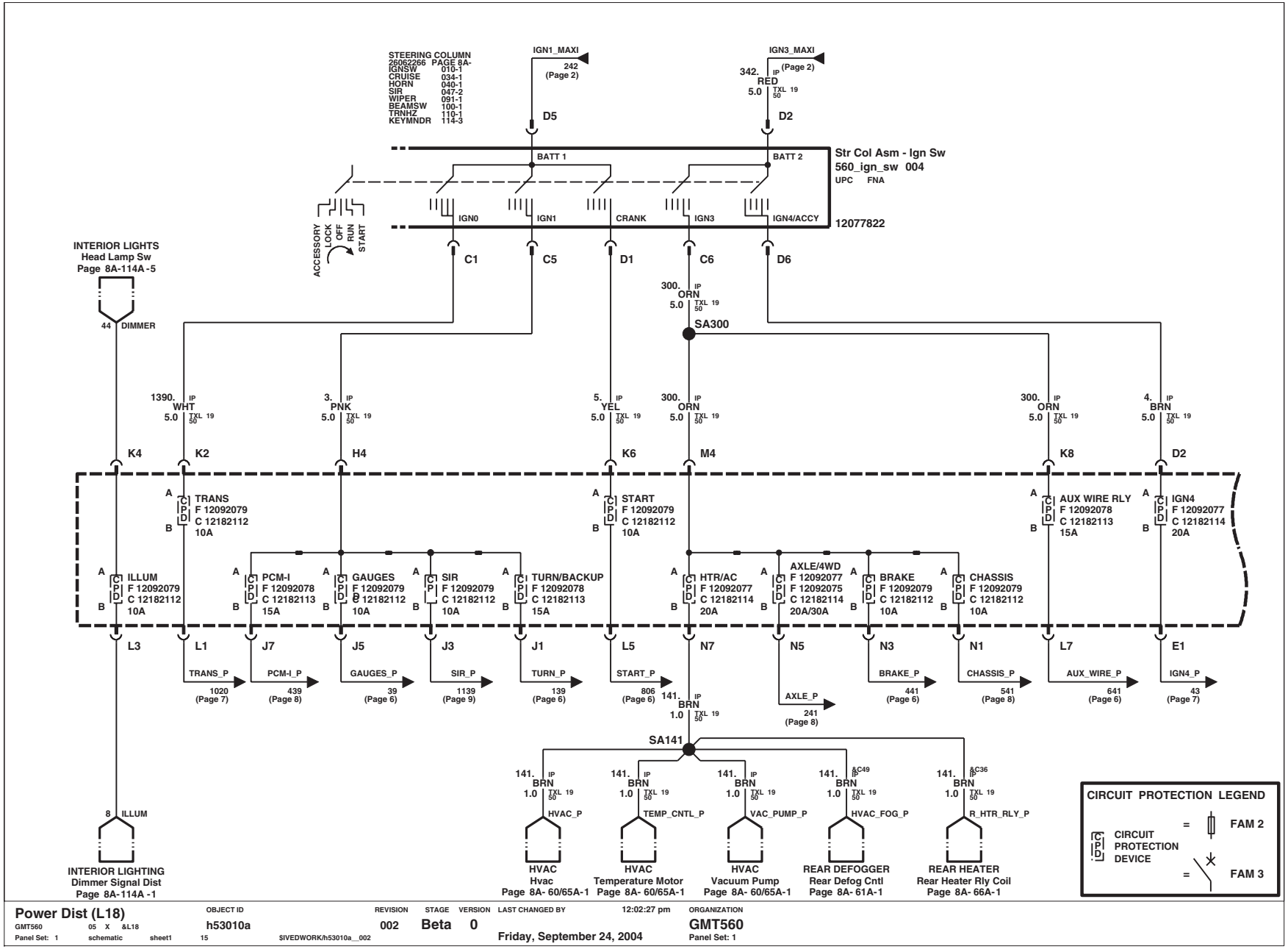
A ⬠ is shown on the bottom left of the first schematic Power Distribution h53010a_002_01. *(see page D-3)*
This is an eight circuit and the "baseball plate" indicates which subsystem it goes to. It is marked:
Interior Lighting
Dimmer Signal Dist
Page 8A-114A-1

The other end of the signal is shown in subsystem drawing 114A page 1. *(see page D-223)*.
Two "baseball plates" are shown so you look for the eight circuit to identify the proper circuit.
Fuse protection is shown in the "baseball plate."

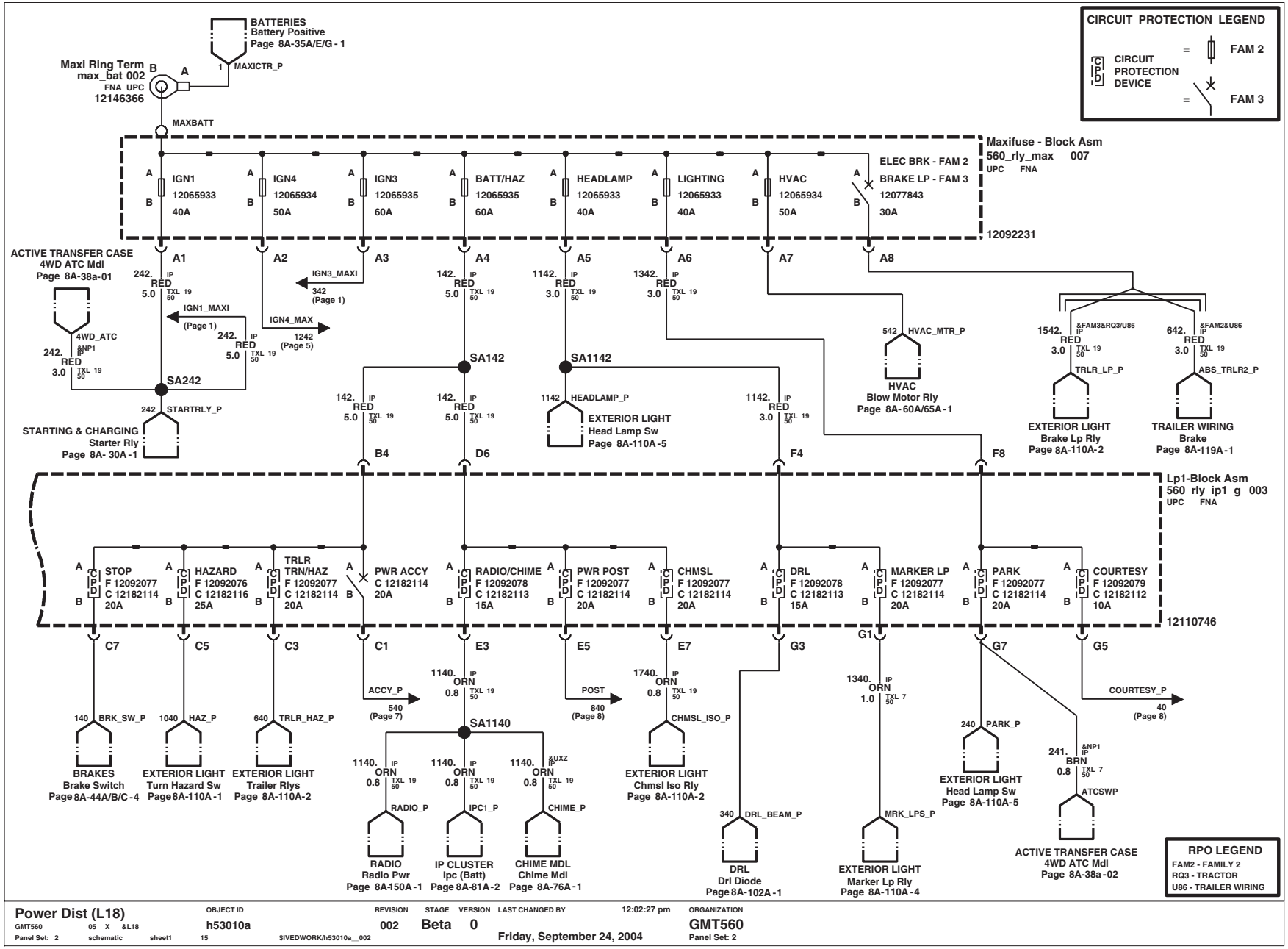
Other Information

Other information on the schematics are wire color and size. The size is shown in square mm. Connector information is indicated for devices. Terminal assignments are shown for devices. The connector PN is for the harness end not the device.

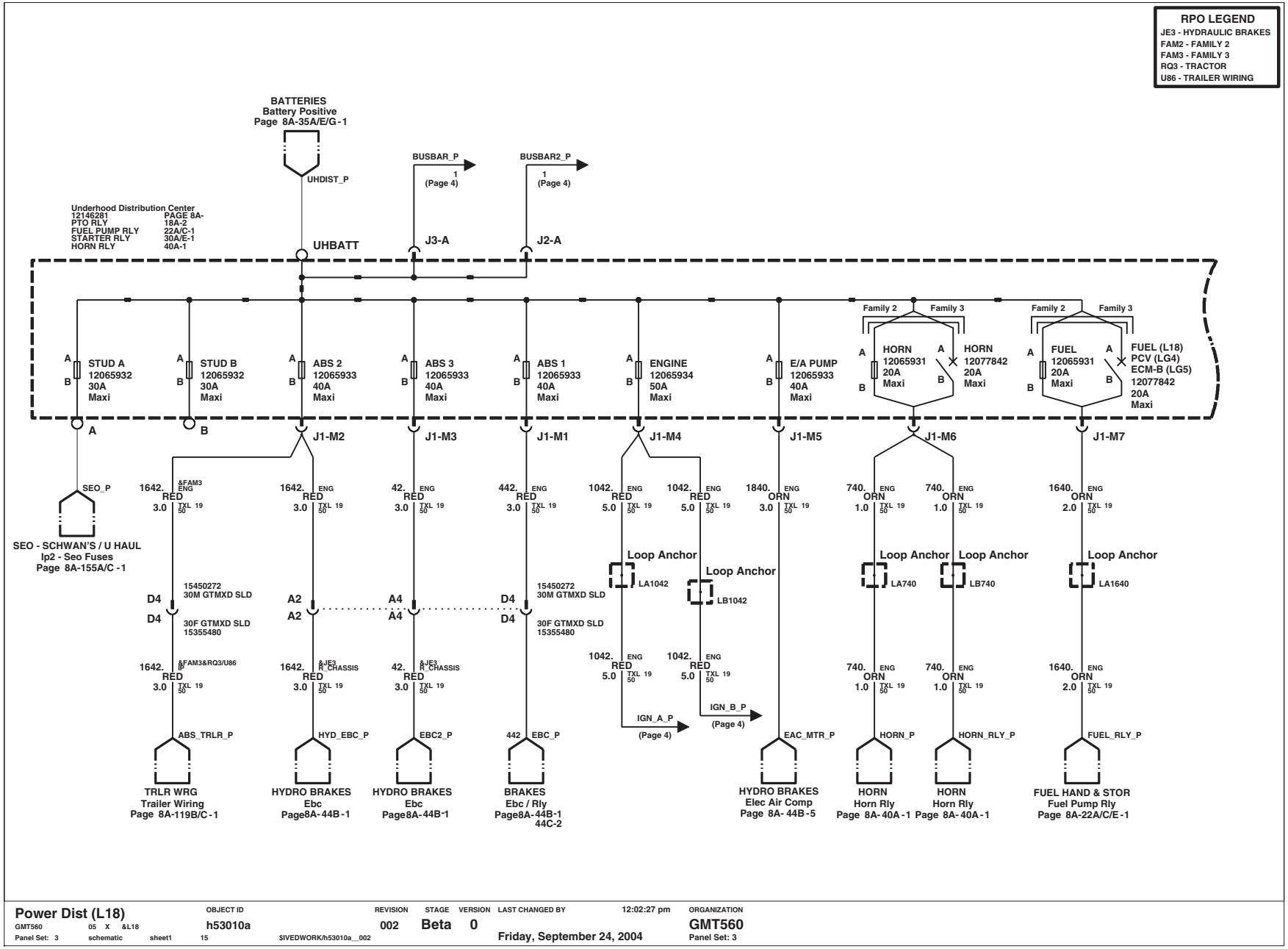
Power Distribution — (L18) 8.1L-Gas/NAPT



Power Distribution — (L18) 8.1L-Gas/NAPT

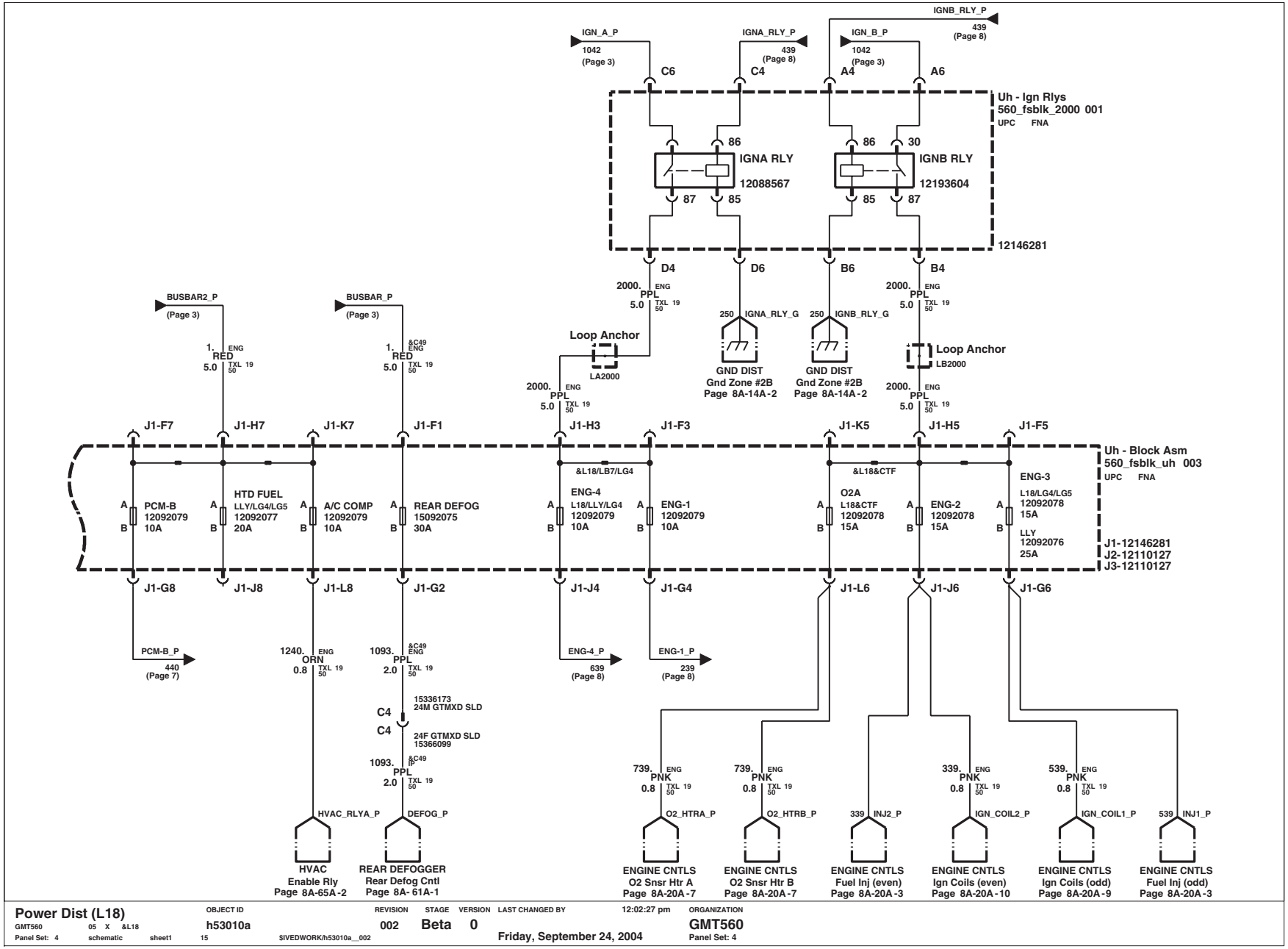


Power Distribution — (L18) 8.1L-Gas/NAPT

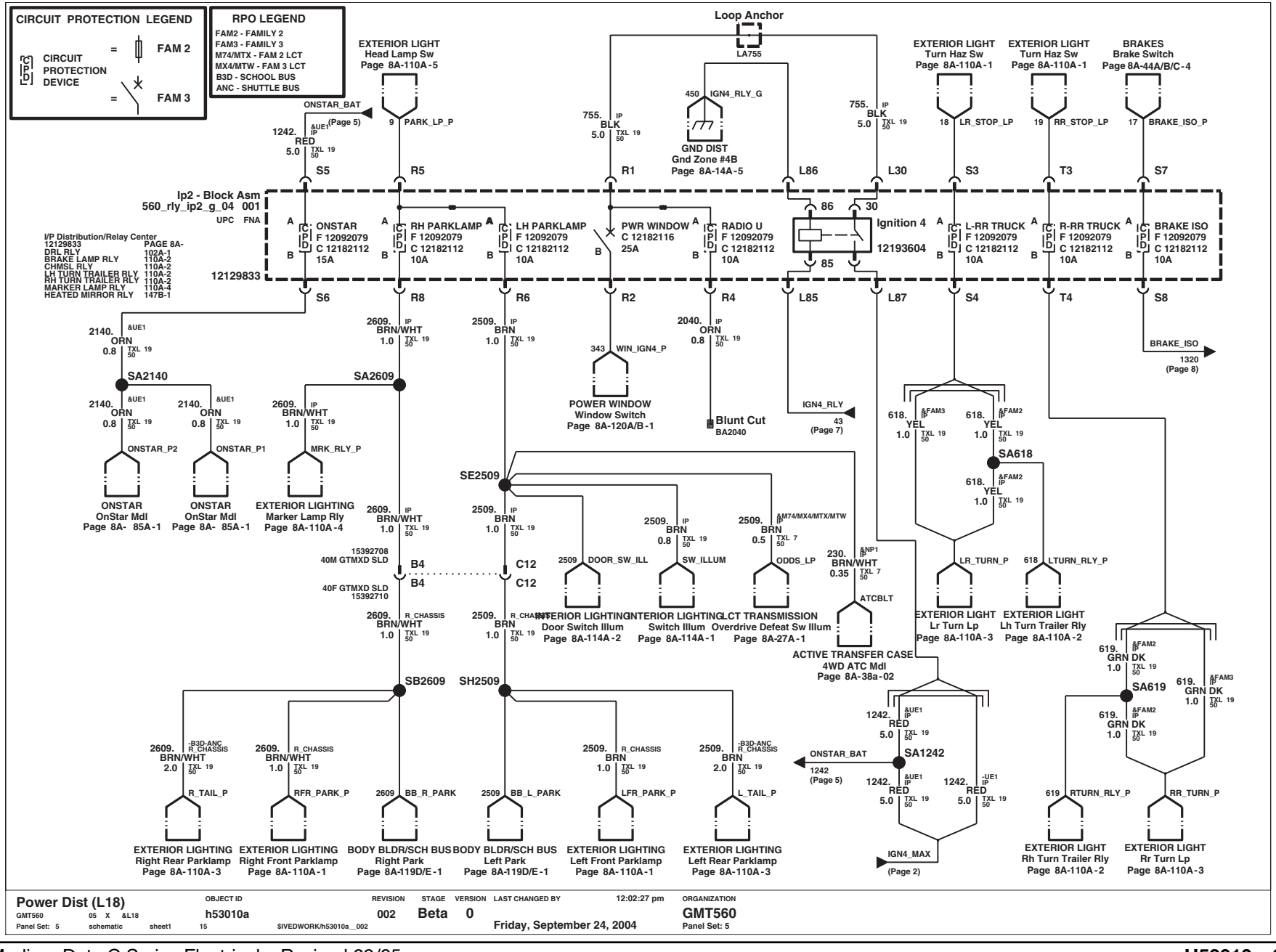


Power Dist (L18)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY		ORGANIZATION
GMT560 05 X &L18	h53010a	002	Beta	0		12:02:27 pm	GMT560
Panel Set: 3 schematic sheet1 15	$IVEDWORK/h53010a__002				Friday, September 24, 2004		Panel Set: 3

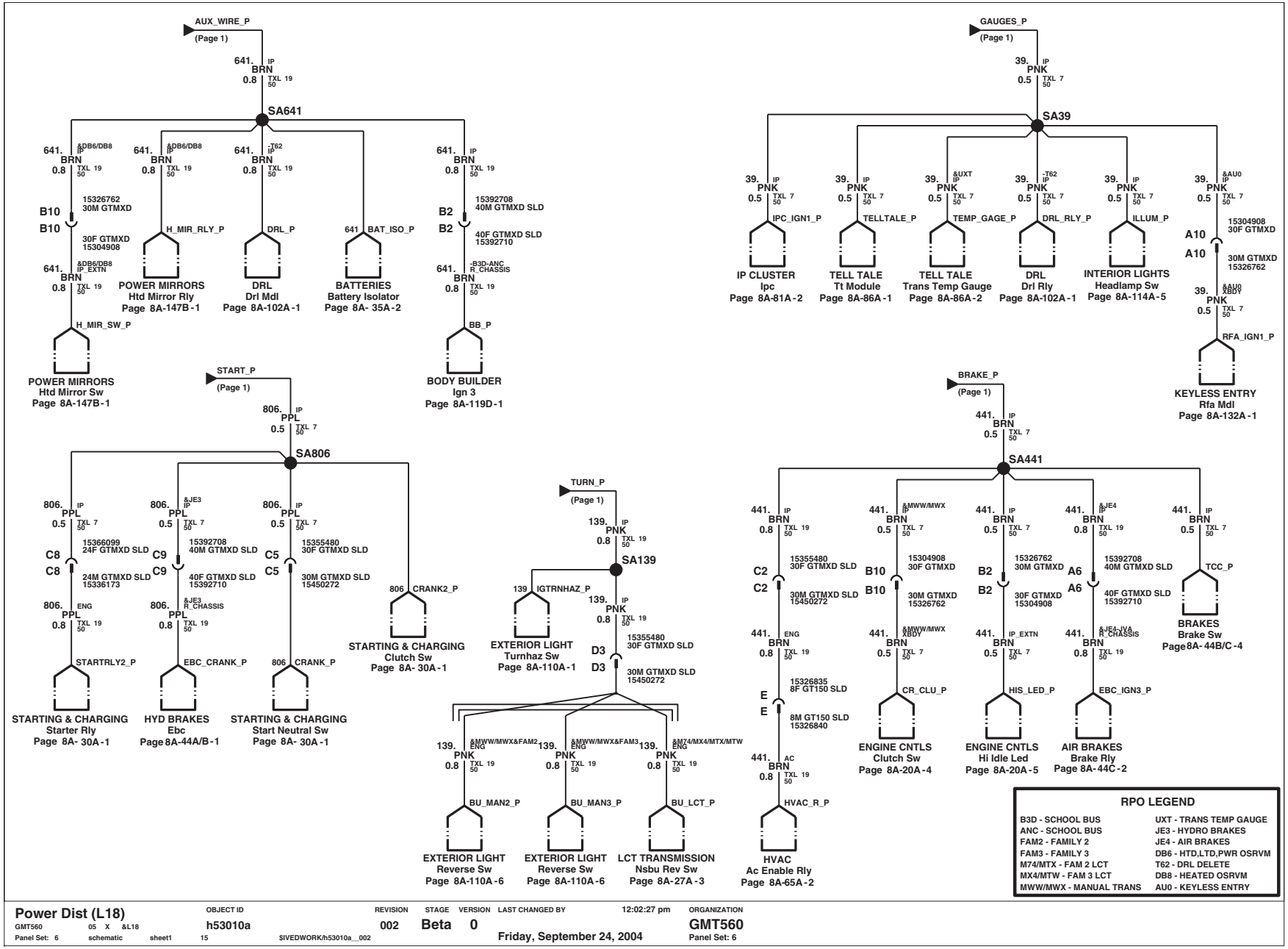
Power Distribution — (L18) 8.1L-Gas/NAPT



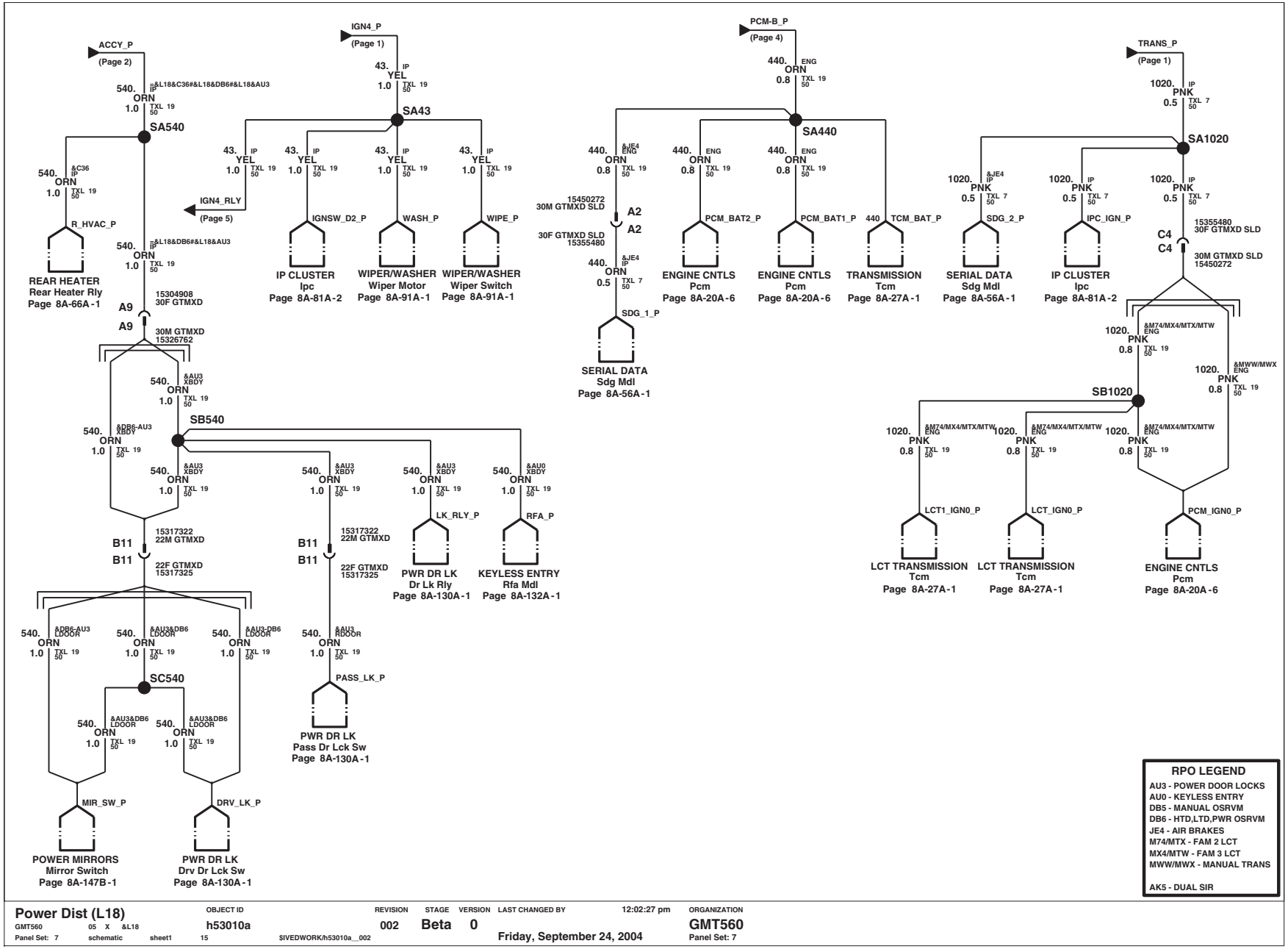
Power Distribution — (L18) 8.1L-Gas/NAPT


CIRCUIT PROTECTION LEGEND
CIRCUIT PROTECTION DEVICE
= FAM 2
= FAM 3
RPO LEGEND
FAM2 - FAMILY 2
FAM3 - FAMILY 3
M74/MTX - FAM 2 LCT
MX4/MTW - FAM 3 LCT
B3D - SCHOOL BUS
ANC - SHUTTLE BUS
Loop Anchor
LA755
EXTERIOR LIGHT Head Lamp Sw Page 8A-110A-5
EXTERIOR LIGHT Turn Haz Sw Page 8A-110A-1
EXTERIOR LIGHT Turn Haz Sw Page 8A-110A-1
BRAKES Brake Switch Page 8A-44A/B/C-4
ONSTAR_BAT
(Page 5)
1242. RED 5.0 TXL 19 50
9 PARK_LP_P
450 IGN4_RLY_G
755. BLK 5.0 TXL 19 50
GND DIST Gnd Zone #4B Page 8A-14A-5
18 LR_STOP_LP
19 RR_STOP_LP
17 BRAKE_ISO_P
S5 R5 R1 L86 L30 S3 T3 S7
Ip2 - Block Asm 560_rly_ip2_g_04 001
UPC FNA
12129833
ONSTAR F 12092079 C 12182112 15A
RH PARKLAMP F 12092079 C 12182112 10A
LH PARKLAMP F 12092079 C 12182112 10A
PWR WINDOW C 12182116 25A
RADIO U F 12092079 C 12182112 10A
86 30 85
Ignition 4
12193604
L-RR TRUCK F 12092079 C 12182112 10A
R-RR TRUCK F 12092079 C 12182112 10A
BRAKE ISO F 12092079 C 12182112 10A
I/P Distribution/Relay Center 12129833
DRL RLY 102A-1
BRAKE LAMP RLY 110A-2
CHMSL RLY 110A-2
LH TURN TRAILER RLY 110A-2
RH TURN TRAILER RLY 110A-2
MARKER LAMP RLY 110A-4
HEATED MIRROR RLY 147B-1
S6 R8 R6 R2 R4 L85 L87 S4 T4 S8
2140. ORN 0.8 TXL 19 50
2609. BRN/WHT 1.0 TXL 19 50
2509. BRN 1.0 TXL 19 50
343 WIN_IGN4_P
2040. ORN 0.8 TXL 19 50
BRAKE_ISO
1320 (Page 8)
SA2140
SA2609
POWER WINDOW Window Switch Page 8A-120A/B-1
Blunt Cut BA2040
IGN4_RLY
43 (Page 7)
618. YEL 1.0 TXL 19 50
SA618
ONSTAR_P2
ONSTAR_P1
MRK_RLY_P
ONSTAR OnStar Mdl Page 8A- 85A-1
ONSTAR OnStar Mdl Page 8A- 85A-1
EXTERIOR LIGHTING Marker Lamp Rly Page 8A-110A-4
SE2509
15392708 40M GTMXD SLD
40F GTMXD SLD 15392710
B4 C12
2509 DOOR_SW_ILL
2509. BRN 0.8 TXL 19 50
SW_ILLUM
2509. BRN 0.5 TXL 7 50
ODDS_LP
230. BRN/WHT 0.35 TXL 7 50
ATCBLT
LR_TURN_P
618 LTURN_RLY_P
EXTERIOR LIGHTING Door Switch Illum Page 8A-114A-2
EXTERIOR LIGHTING Switch Illum Page 8A-114A-1
LCT TRANSMISSION Overdrive Defeat Sw Illum Page 8A-27A-1
ACTIVE TRANSFER CASE 4WD ATC Mdl Page 8A-38a-02
EXTERIOR LIGHT Lr Turn Lp Page 8A-110A-3
EXTERIOR LIGHT Lh Turn Trailer Rly Page 8A-110A-2
619. GRN DK 1.0 TXL 19 50
SA619
SB2609
SH2509
2609. BRN/WHT 2.0 TXL 19 50
R_TAIL_P
2609. BRN/WHT 1.0 TXL 19 50
RFR_PARK_P
2609 BB_R_PARK
2509 BB_L_PARK
2509. BRN 1.0 TXL 19 50
LFR_PARK_P
2509. BRN 2.0 TXL 19 50
L_TAIL_P
1242. RED 5.0 TXL 19 50
SA1242
ONSTAR_BAT
1242 (Page 5)
IGN4_MAX
(Page 2)
619 RTURN_RLY_P
RR_TURN_P
EXTERIOR LIGHTING Right Rear Parklamp Page 8A-110A-3
EXTERIOR LIGHTING Right Front Parklamp Page 8A-110A-1
BODY BLDR/SCH BUS Right Park Page 8A-119D/E-1
BODY BLDR/SCH BUS Left Park Page 8A-119D/E-1
EXTERIOR LIGHTING Left Front Parklamp Page 8A-110A-1
EXTERIOR LIGHTING Left Rear Parklamp Page 8A-110A-3
EXTERIOR LIGHT Rh Turn Trailer Rly Page 8A-110A-2
EXTERIOR LIGHT Rr Turn Lp Page 8A-110A-3
Power Dist (L18)
GMT560 05 X &L18
Panel Set: 5 schematic sheet1 15
OBJECT ID h53010a
REVISION 002
STAGE Beta
VERSION 0
LAST CHANGED BY $IVEDWORK/h53010a__002
12:02:27 pm Friday, September 24, 2004
ORGANIZATION GMT560
Panel Set: 5

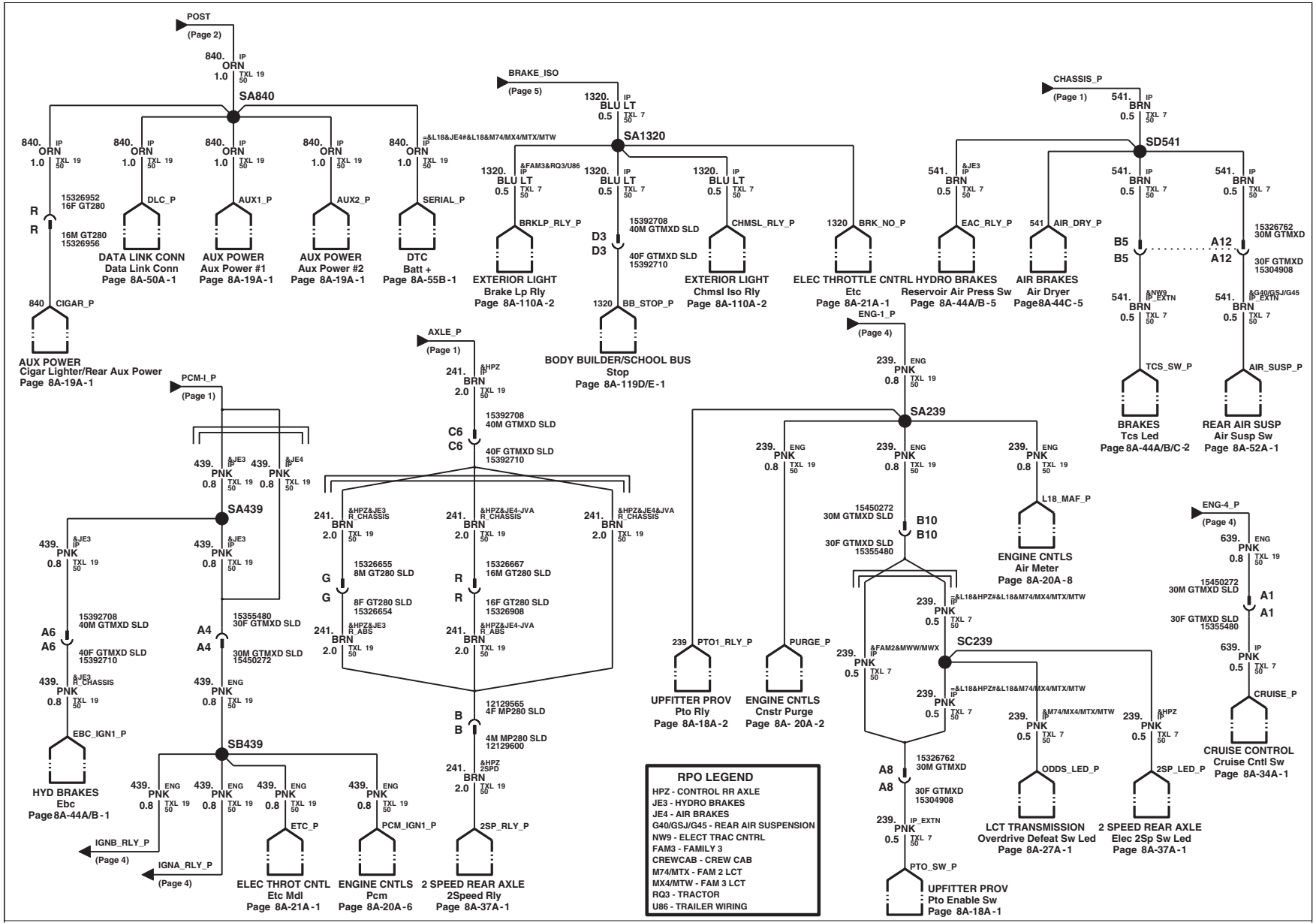
Power Distribution — (L18) 8.1L-Gas/NAPT



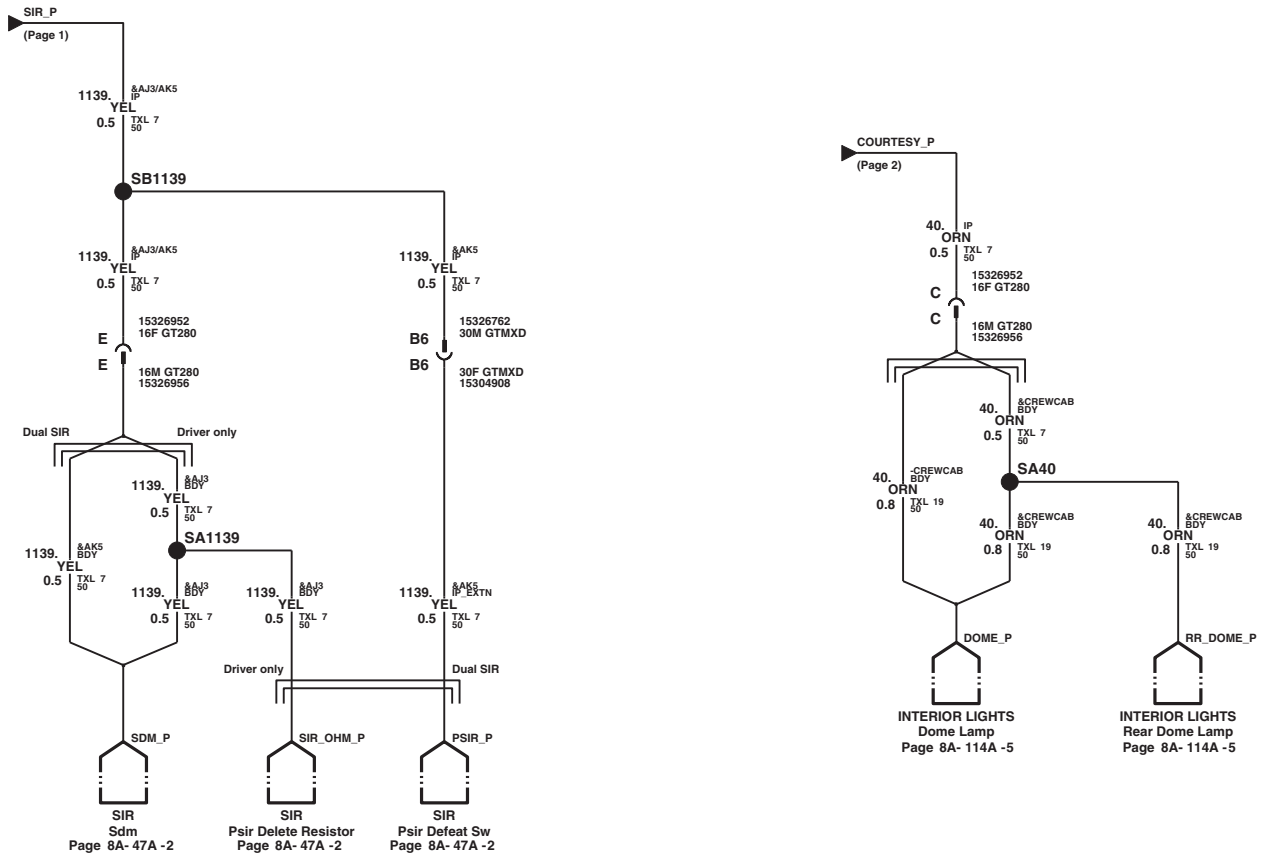
Power Distribution — (L18) 8.1L-Gas/NAPT



Power Distribution — (L18) 8.1L-Gas/NAPT



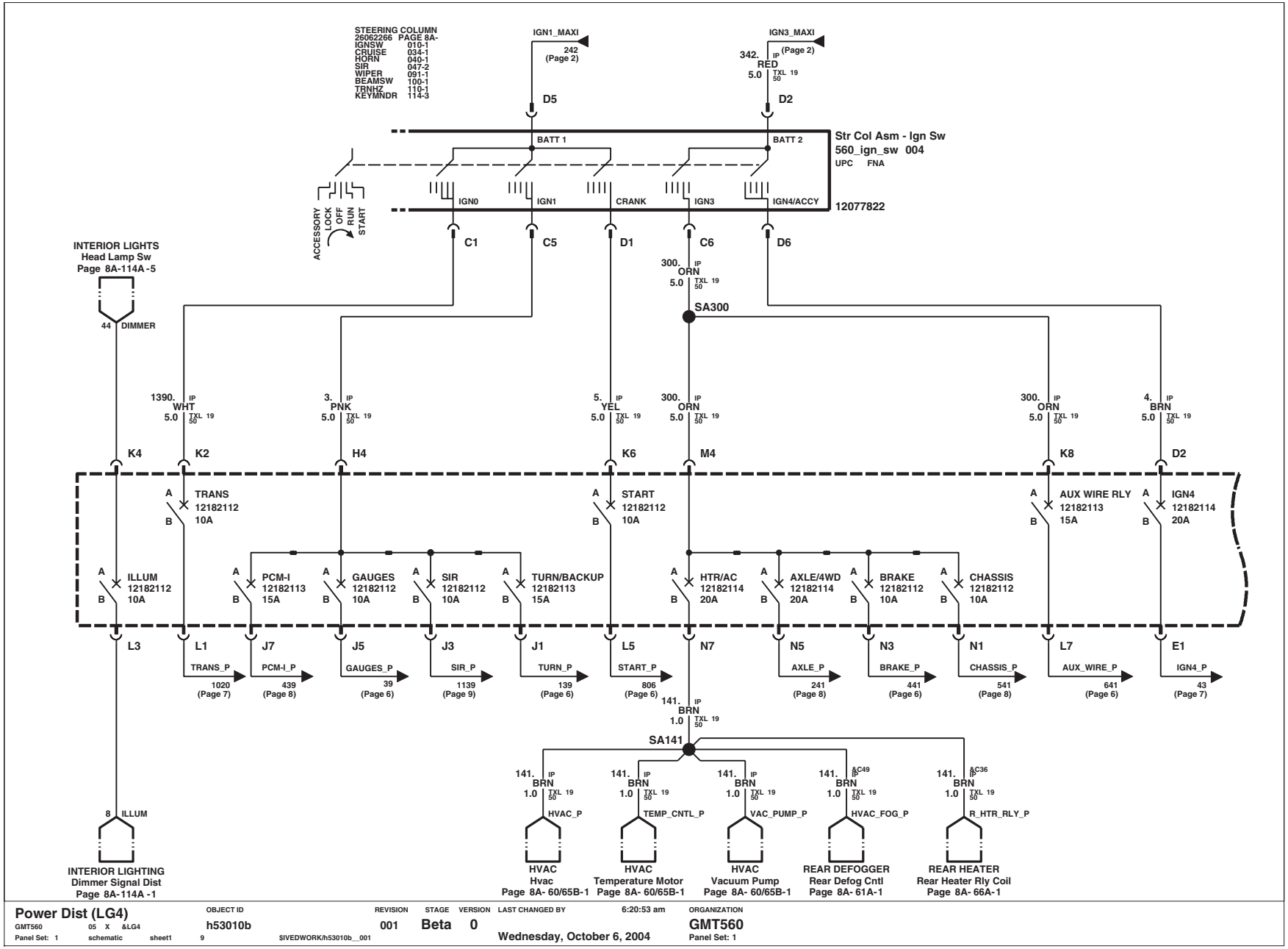
Power Distribution — (L18) 8.1L-Gas/NAPT


SIR_P
(Page 1)
1139. &AJ3/AK5 IP YEL 0.5 TXL 7 50
SB1139
1139. &AJ3/AK5 IP YEL 0.5 TXL 7 50
E 15326952 16F GT280
E 16M GT280 15326956
1139. &AK5 IP YEL 0.5 TXL 7 50
B6 15326762 30M GTMXD
B6 30F GTMXD 15304908
Dual SIR
Driver only
1139. &AJ3 BDY YEL 0.5 TXL 7 50
SA1139
1139. &AK5 BDY YEL 0.5 TXL 7 50
1139. &AJ3 BDY YEL 0.5 TXL 7 50
1139. &AJ3 BDY YEL 0.5 TXL 7 50
1139. &AK5 IP EXTN YEL 0.5 TXL 7 50
Driver only
Dual SIR
SDM_P
SIR_OHM_P
PSIR_P
SIR Sdm Page 8A- 47A -2
SIR Psir Delete Resistor Page 8A- 47A -2
SIR Psir Defeat Sw Page 8A- 47A -2
COURTESY_P
(Page 2)
40. IP ORN 0.5 TXL 7 50
C 15326952 16F GT280
C 16M GT280 15326956
40. &CREWCAB BDY ORN 0.5 TXL 7 50
40. CREWCAB BDY ORN 0.8 TXL 19 50
SA40
40. &CREWCAB BDY ORN 0.8 TXL 19 50
40. &CREWCAB BDY ORN 0.8 TXL 19 50
DOME_P
RR_DOME_P
INTERIOR LIGHTS Dome Lamp Page 8A- 114A -5
INTERIOR LIGHTS Rear Dome Lamp Page 8A- 114A -5

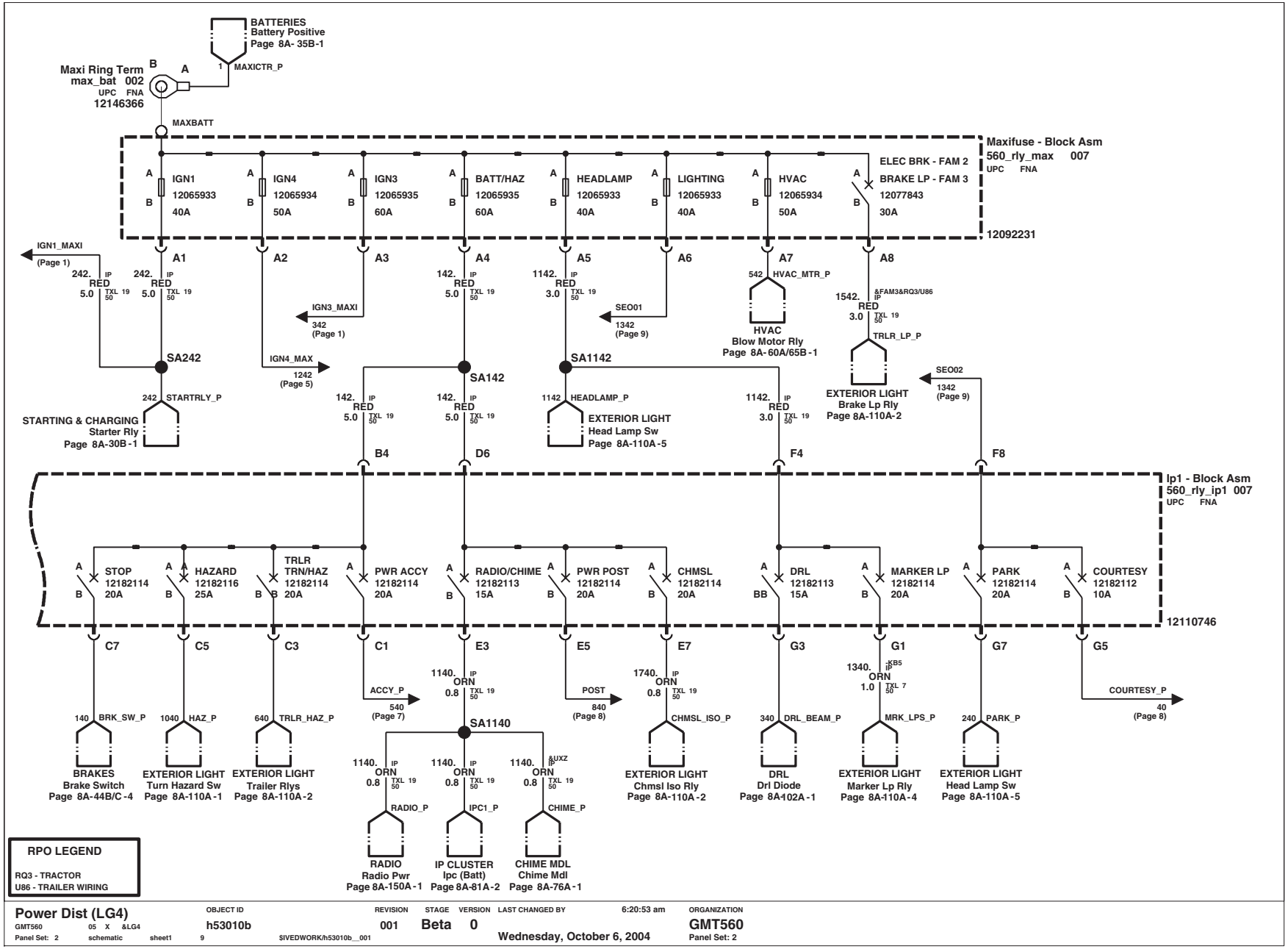
RPO LEGEND
AJ3 - DRIVER SIR
AK5 - DUAL SIR
CREWCAB - CREW CAB

Power Dist (L18)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY	12:02:27 pm	ORGANIZATION
GMT560 05 X &L18	h53010a	002	Beta	0			GMT560
Panel Set: 9 schematic sheet1 15	$IVEDWORK/h53010a__002				Friday, September 24, 2004		Panel Set: 9

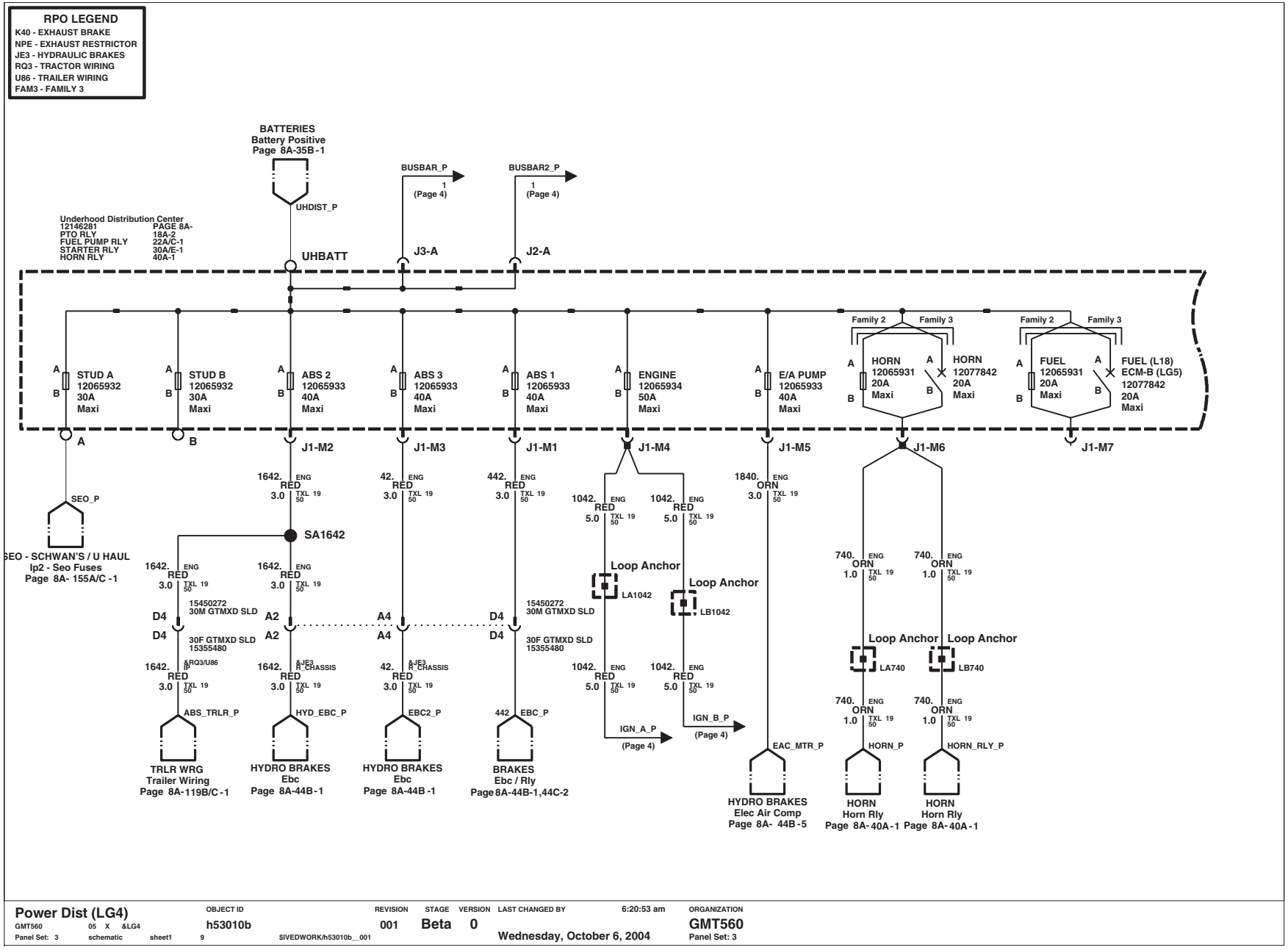
Power Distribution — (LG4) 7.8L-Diesel/Duramax



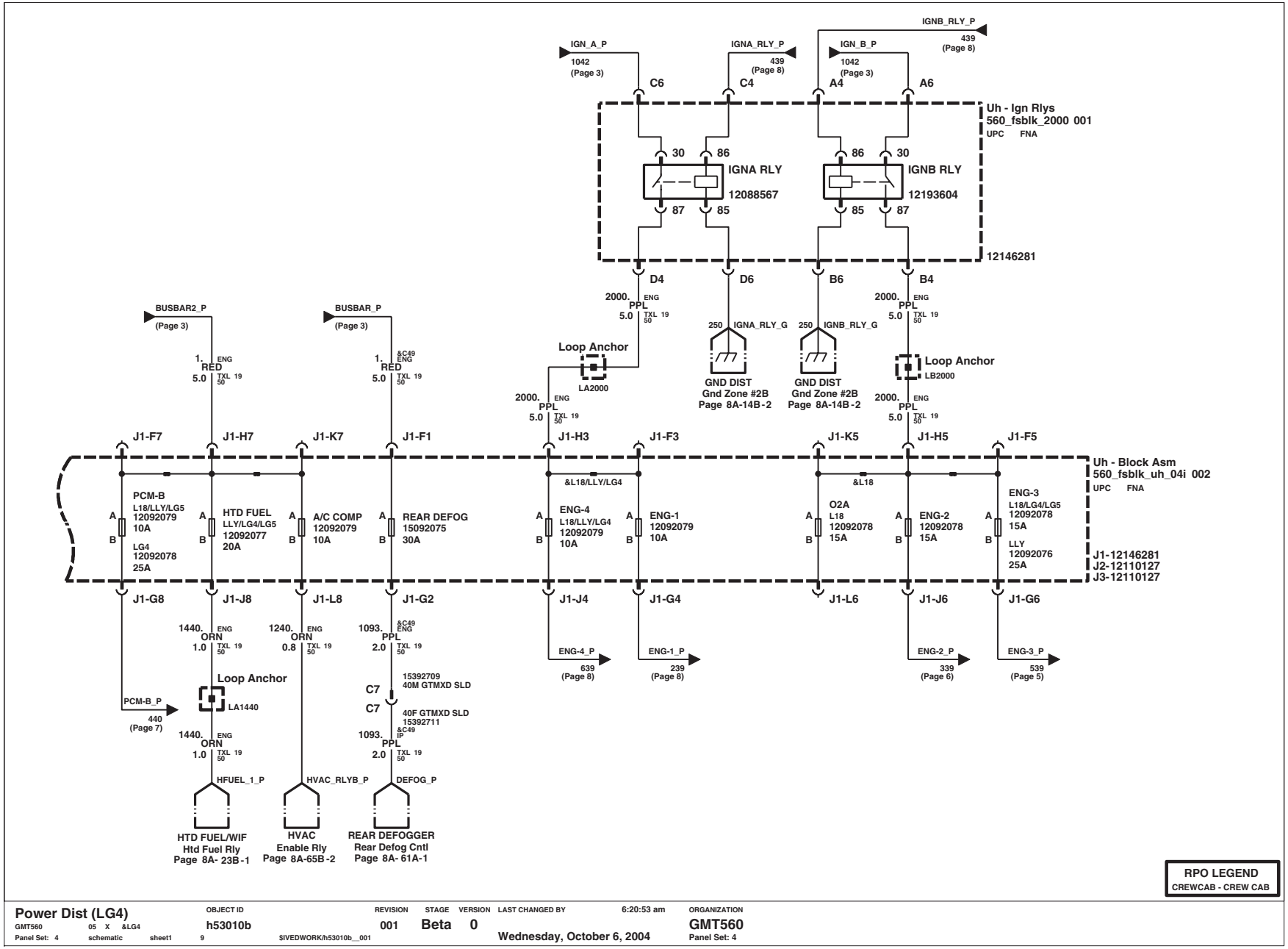
Power Distribution — (LG4) 7.8L-Diesel/Duramax



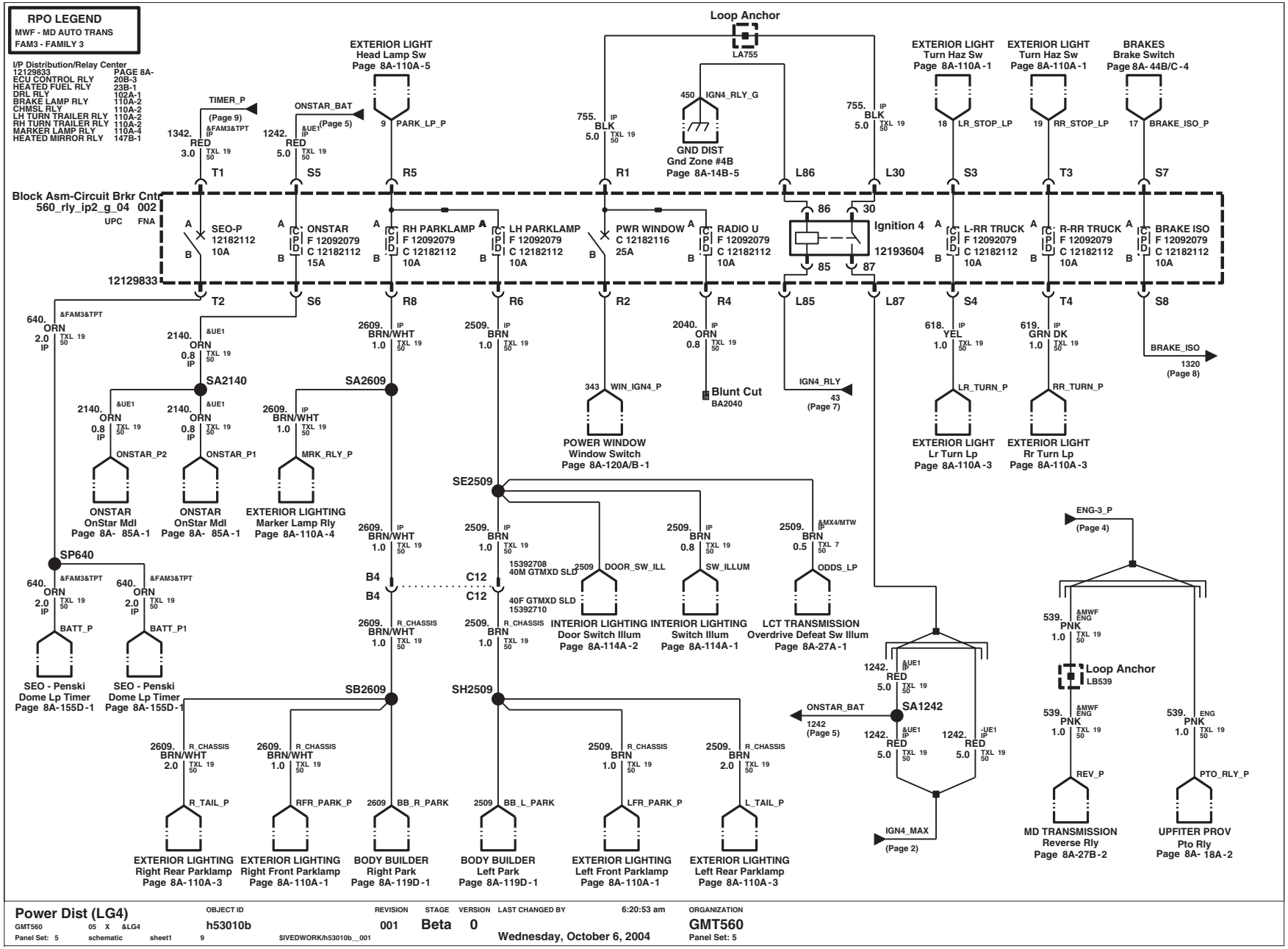
Power Distribution — (LG4) 7.8L-Diesel/Duramax



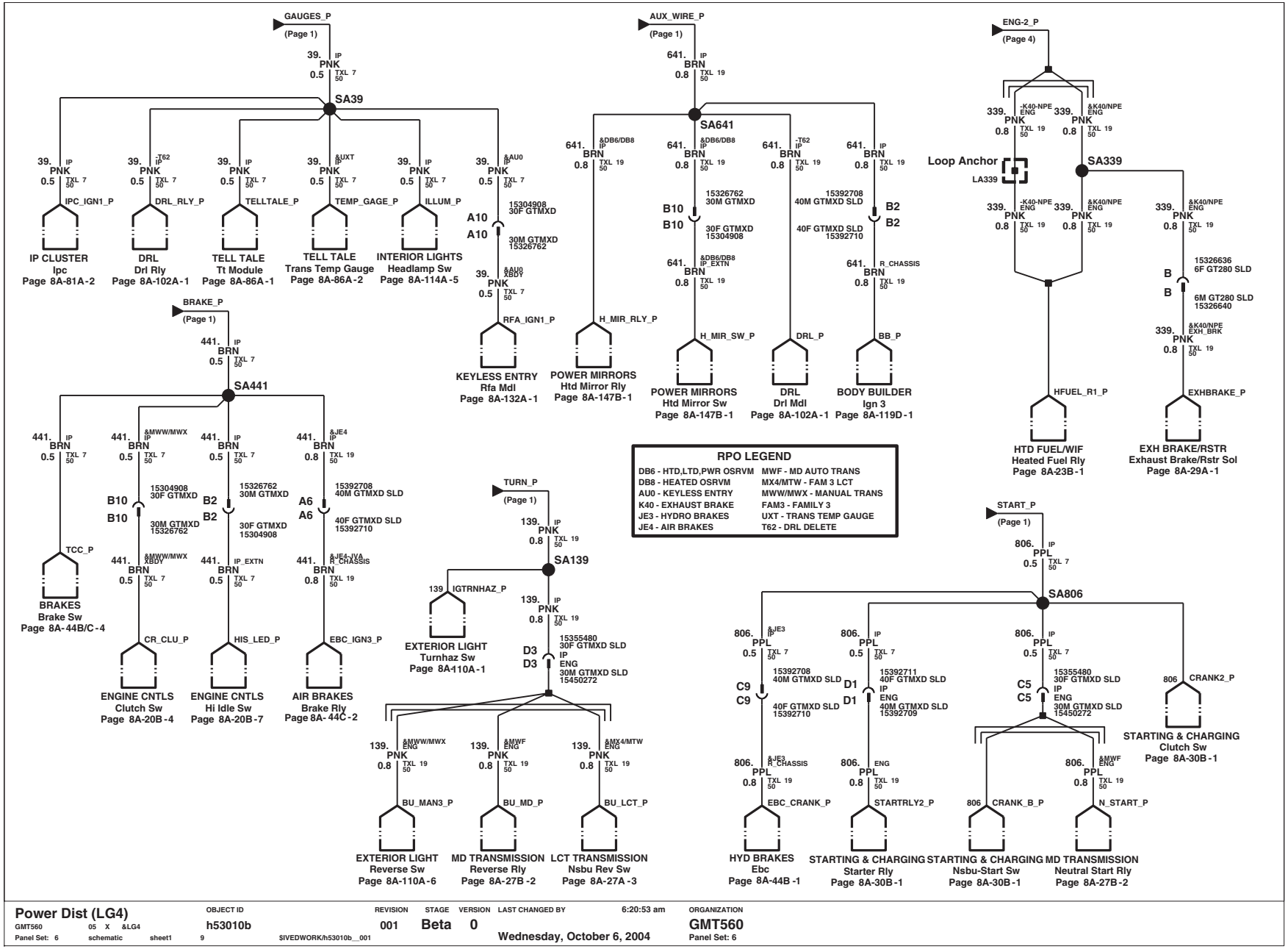
Power Distribution — (LG4) 7.8L-Diesel/Duramax



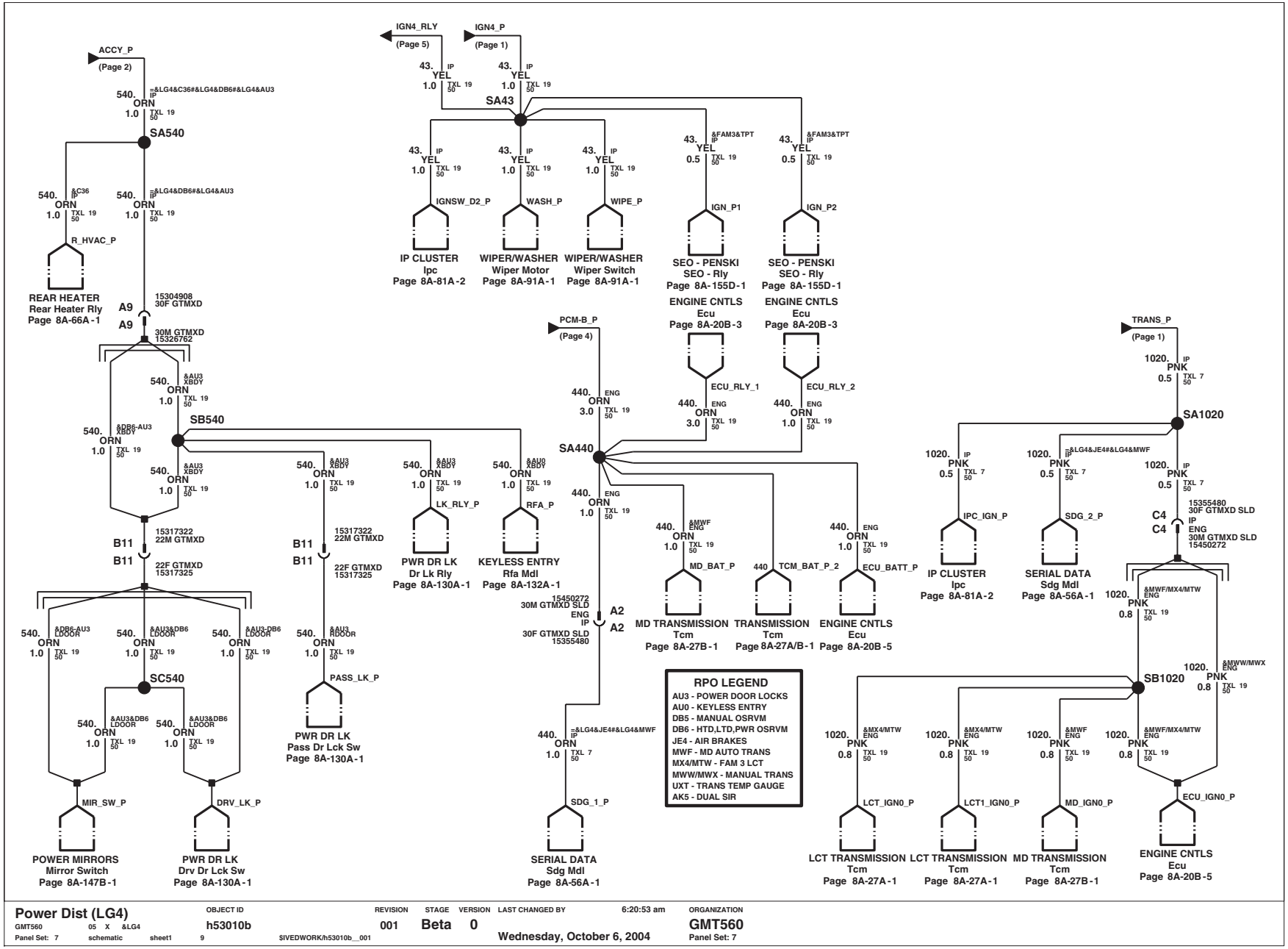
Power Distribution — (LG4) 7.8L-Diesel/Duramax


RPO LEGEND
MWF - MD AUTO TRANS
FAM3 - FAMILY 3
I/P Distribution/Relay Center
12129833 PAGE 8A-
ECU CONTROL RLY 20B-3
HEATED FUEL RLY 23B-1
DRL RLY 102A-1
BRAKE LAMP RLY 110A-2
CHMSL RLY 110A-2
LH TURN TRAILER RLY 110A-2
RH TURN TRAILER RLY 110A-2
MARKER LAMP RLY 110A-4
HEATED MIRROR RLY 147B-1
Loop Anchor
LA755
EXTERIOR LIGHT Head Lamp Sw Page 8A-110A-5
EXTERIOR LIGHT Turn Haz Sw Page 8A-110A-1
EXTERIOR LIGHT Turn Haz Sw Page 8A-110A-1
BRAKES Brake Switch Page 8A-44B/C-4
GND DIST Gnd Zone #4B Page 8A-14B-5
Block Asm-Circuit Brkr Cntr 560_rly_ip2_g_04 002
12129833
SEO-P 12182112 10A
ONSTAR F 12092079 C 12182112 15A
RH PARKLAMP F 12092079 C 12182112 10A
LH PARKLAMP F 12092079 C 12182112 10A
PWR WINDOW C 12182116 25A
RADIO U F 12092079 C 12182112 10A
Ignition 4 12193604
L-RR TRUCK F 12092079 C 12182112 10A
R-RR TRUCK F 12092079 C 12182112 10A
BRAKE ISO F 12092079 C 12182112 10A
SA2140
SA2609
SA1242
SP640
SB2609
SH2509
SE2509
POWER WINDOW Window Switch Page 8A-120A/B-1
Blunt Cut BA2040
EXTERIOR LIGHT Lr Turn Lp Page 8A-110A-3
EXTERIOR LIGHT Rr Turn Lp Page 8A-110A-3
ONSTAR OnStar Mdl Page 8A- 85A-1
ONSTAR OnStar Mdl Page 8A- 85A-1
EXTERIOR LIGHTING Marker Lamp Rly Page 8A-110A-4
INTERIOR LIGHTING Door Switch Illum Page 8A-114A-2
INTERIOR LIGHTING Switch Illum Page 8A-114A-1
LCT TRANSMISSION Overdrive Defeat Sw Illum Page 8A-27A-1
SEO - Penski Dome Lp Timer Page 8A-155D-1
SEO - Penski Dome Lp Timer Page 8A-155D-1
EXTERIOR LIGHTING Right Rear Parklamp Page 8A-110A-3
EXTERIOR LIGHTING Right Front Parklamp Page 8A-110A-1
BODY BUILDER Right Park Page 8A-119D-1
BODY BUILDER Left Park Page 8A-119D-1
EXTERIOR LIGHTING Left Front Parklamp Page 8A-110A-1
EXTERIOR LIGHTING Left Rear Parklamp Page 8A-110A-3
MD TRANSMISSION Reverse Rly Page 8A-27B-2
UPFITER PROV Pto Rly Page 8A- 18A-2
Loop Anchor LB539
Power Dist (LG4)
GMT560 05 X &LG4
Panel Set: 5 schematic sheet1 9
OBJECT ID h53010b
REVISION 001
STAGE Beta
VERSION 0
LAST CHANGED BY $IVEDWORK/h53010b__001
6:20:53 am Wednesday, October 6, 2004
ORGANIZATION GMT560
Panel Set: 5

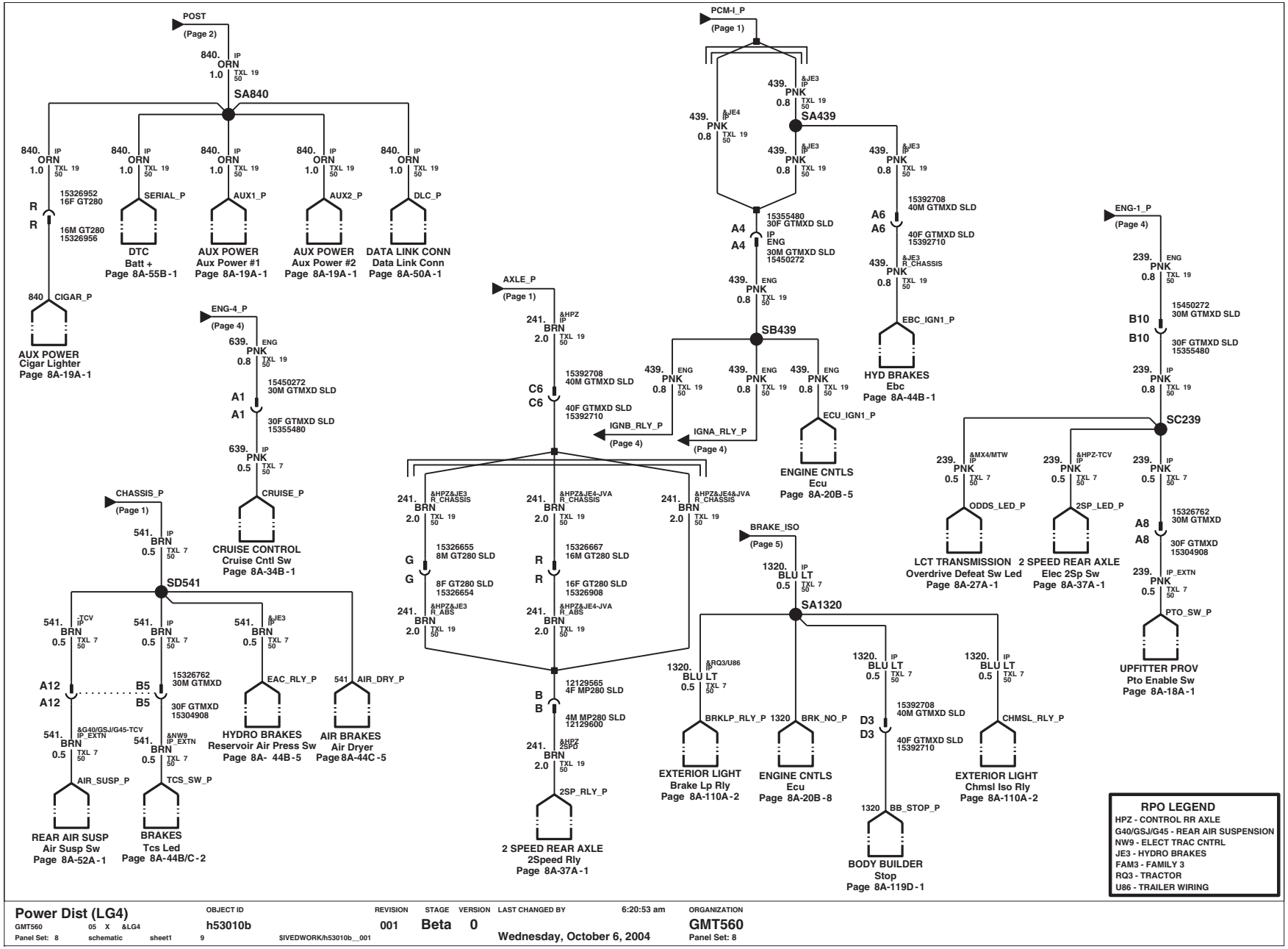
Power Distribution — (LG4) 7.8L-Diesel/Duramax



Power Distribution — (LG4) 7.8L-Diesel/Duramax



Power Distribution — (LG4) 7.8L-Diesel/Duramax



Power Distribution — (LG4) 7.8L-Diesel/Duramax

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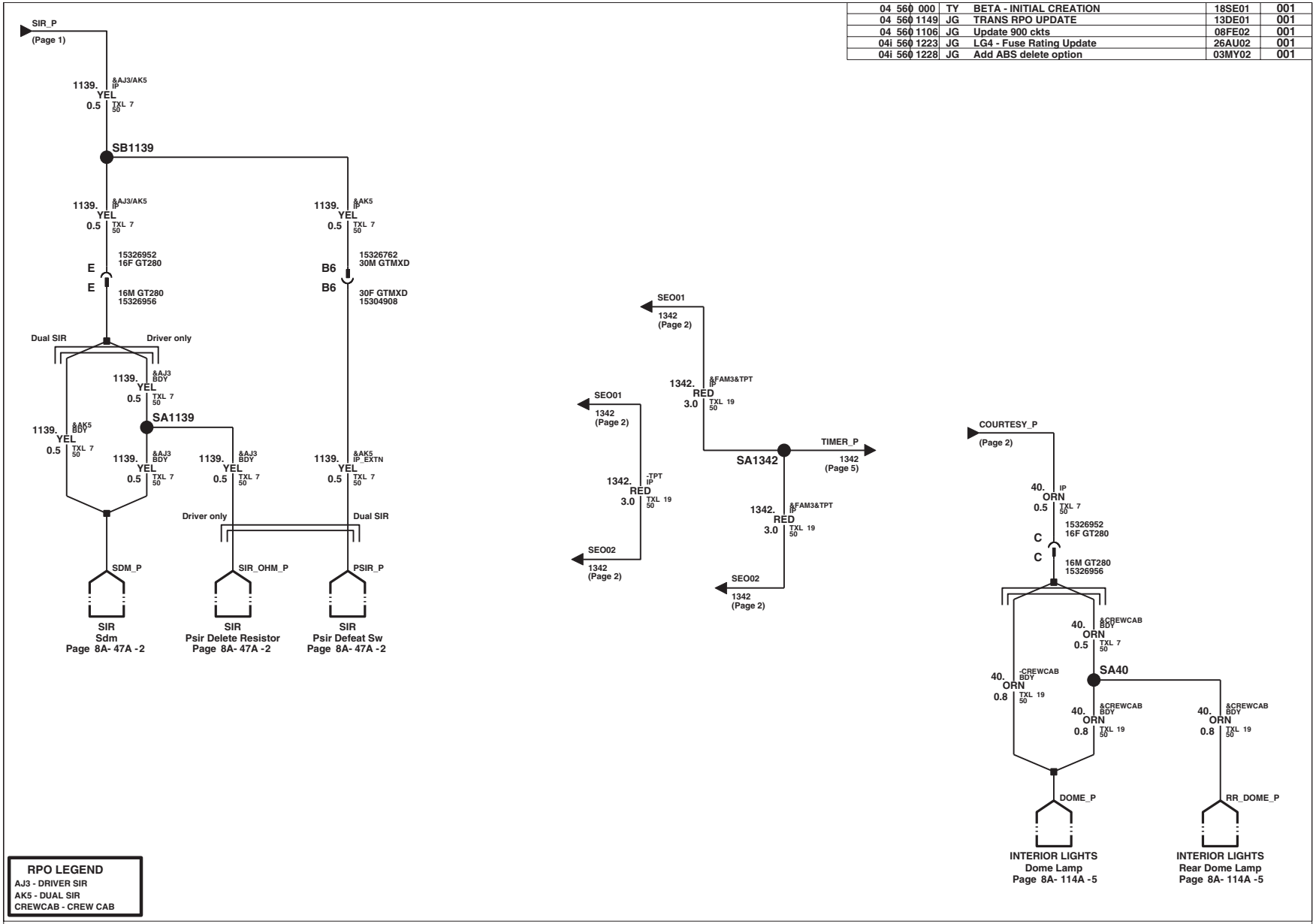
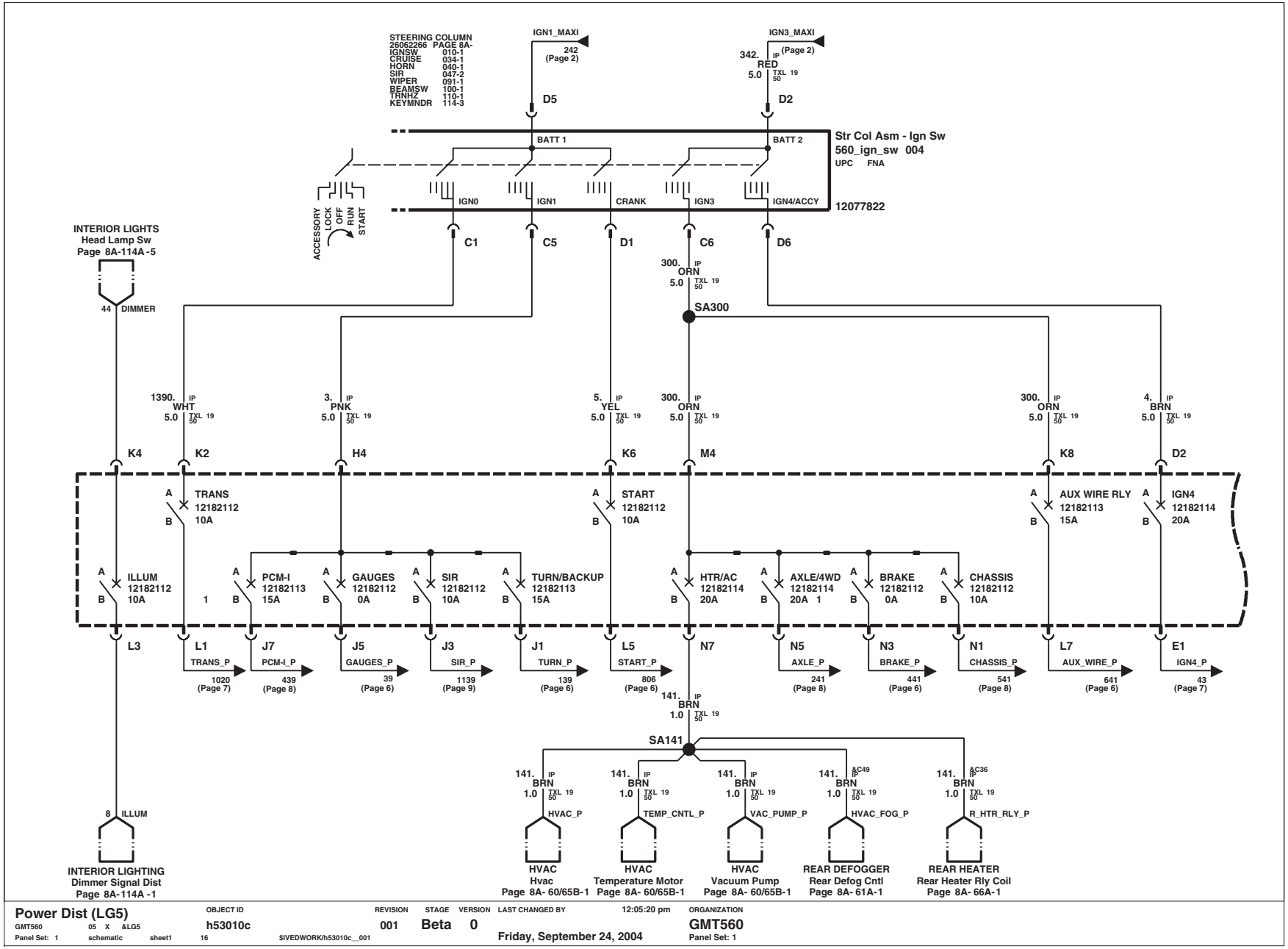
04	560	1149	JG	TRANS RPO UPDATE	13DE01	001
04	560	1106	JG	Update 900 ckts	08FE02	001
04i	560	1223	JG	LG4 - Fuse Rating Update	26AU02	001
04i	560	1228	JG	Add ABS delete option	03MY02	001

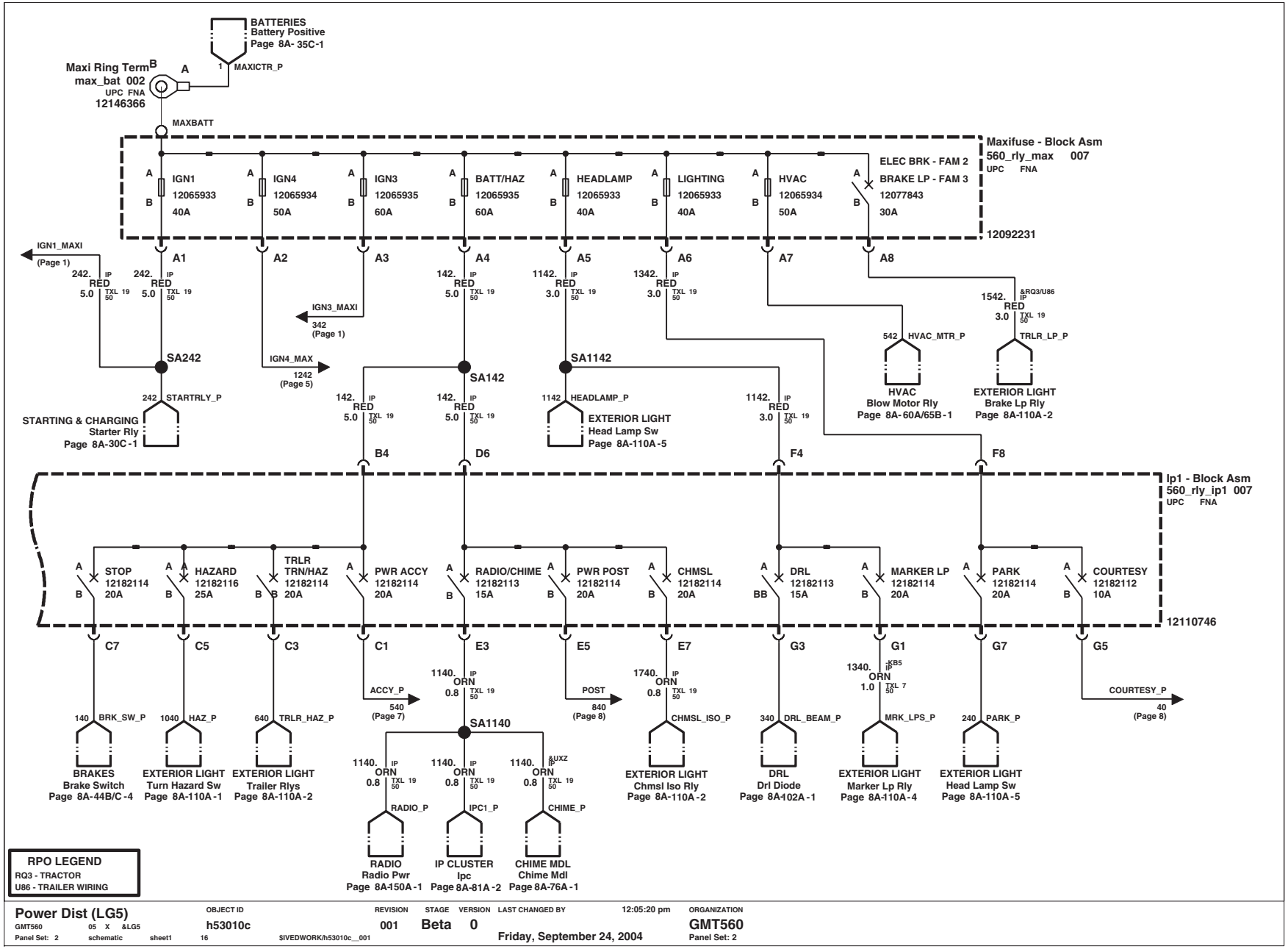

SIR_P
(Page 1)
1139. &AJ3/AK5 IP YEL 0.5 TXL 7 50
SB1139
1139. &AJ3/AK5 IP YEL 0.5 TXL 7 50
1139. &AK5 IP YEL 0.5 TXL 7 50
E 15326952 16F GT280
E 16M GT280 15326956
B6 15326762 30M GTMXD
B6 30F GTMXD 15304908
Dual SIR
Driver only
1139. &AJ3 BDY YEL 0.5 TXL 7 50
SA1139
1139. &AK5 BDY YEL 0.5 TXL 7 50
1139. &AJ3 BDY YEL 0.5 TXL 7 50
1139. &AJ3 BDY YEL 0.5 TXL 7 50
1139. &AK5 IP_EXTN YEL 0.5 TXL 7 50
Driver only
Dual SIR
SDM_P
SIR_OHM_P
PSIR_P
SIR Sdm Page 8A- 47A -2
SIR Psir Delete Resistor Page 8A- 47A -2
SIR Psir Defeat Sw Page 8A- 47A -2
SEO01
1342 (Page 2)
1342. &FAM3&TPT IP RED 3.0 TXL 19 50
SEO01
1342 (Page 2)
1342. -TPT IP RED 3.0 TXL 19 50
SA1342
TIMER_P
1342 (Page 5)
1342. &FAM3&TPT IP RED 3.0 TXL 19 50
SEO02
1342 (Page 2)
SEO02
1342 (Page 2)
COURTESY_P
(Page 2)
40. IP ORN 0.5 TXL 7 50
15326952 16F GT280
C
C
16M GT280 15326956
40. &CREWCAB BDY ORN 0.5 TXL 7 50
40. -CREWCAB BDY ORN 0.8 TXL 19 50
SA40
40. &CREWCAB BDY ORN 0.8 TXL 19 50
40. &CREWCAB BDY ORN 0.8 TXL 19 50
DOME_P
RR_DOME_P
INTERIOR LIGHTS Dome Lamp Page 8A- 114A -5
INTERIOR LIGHTS Rear Dome Lamp Page 8A- 114A -5
RPO LEGEND
AJ3 - DRIVER SIR
AK5 - DUAL SIR
CREWCAB - CREW CAB

Power Dist (LG4)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY		ORGANIZATION
GMT560 05 X &LG4	h53010b	001	Beta	0		6:20:53 am	GMT560
Panel Set: 9 schematic sheet1 9	$IVEDWORK/h53010b__001				Wednesday, October 6, 2004		Panel Set: 9

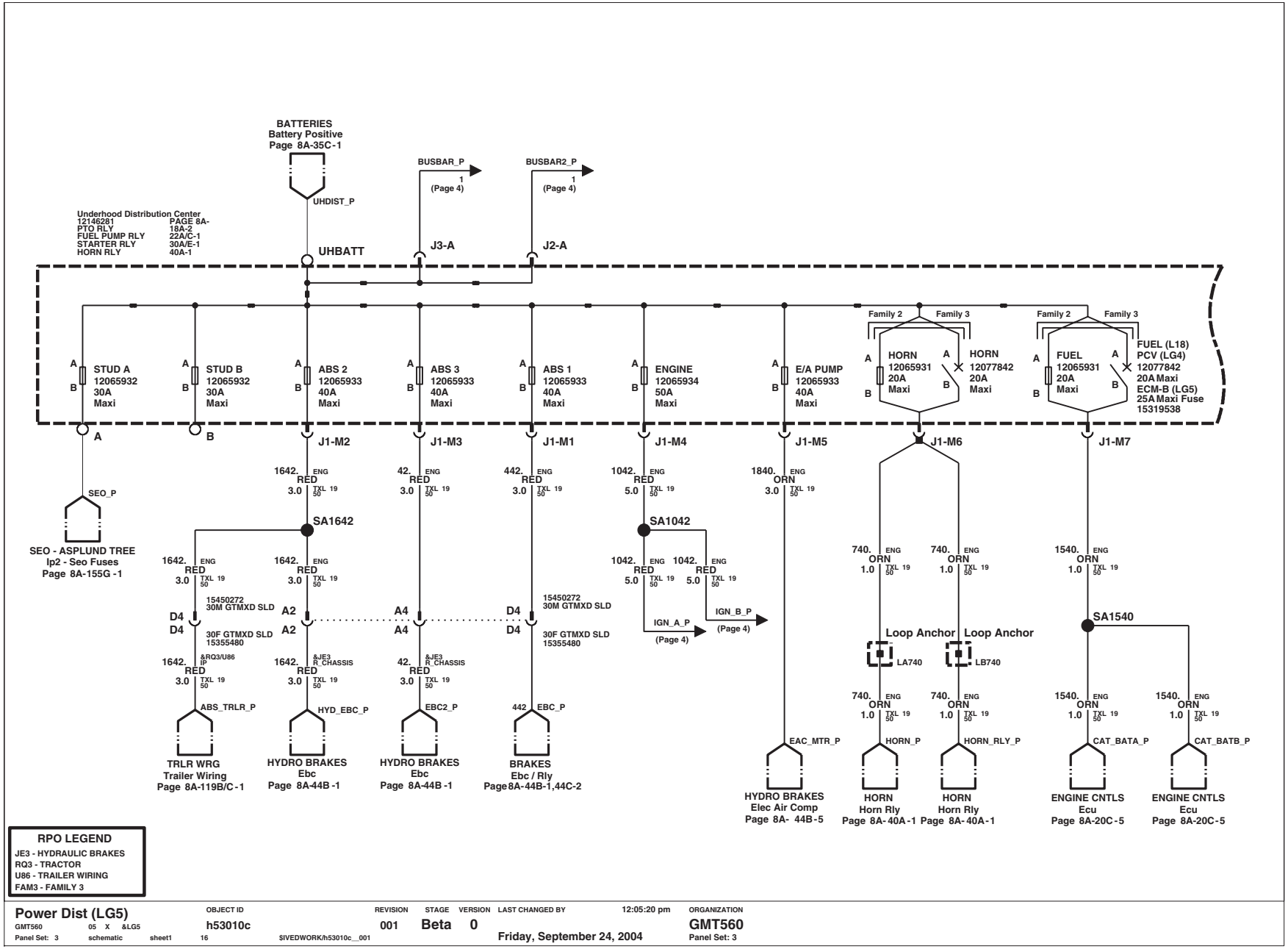
Power Distribution — (LG5) 7.2L-Diesel/CAT



Power Distribution — (LG5) 7.2L-Diesel/CAT



Power Distribution — (LG5) 7.2L-Diesel/CAT

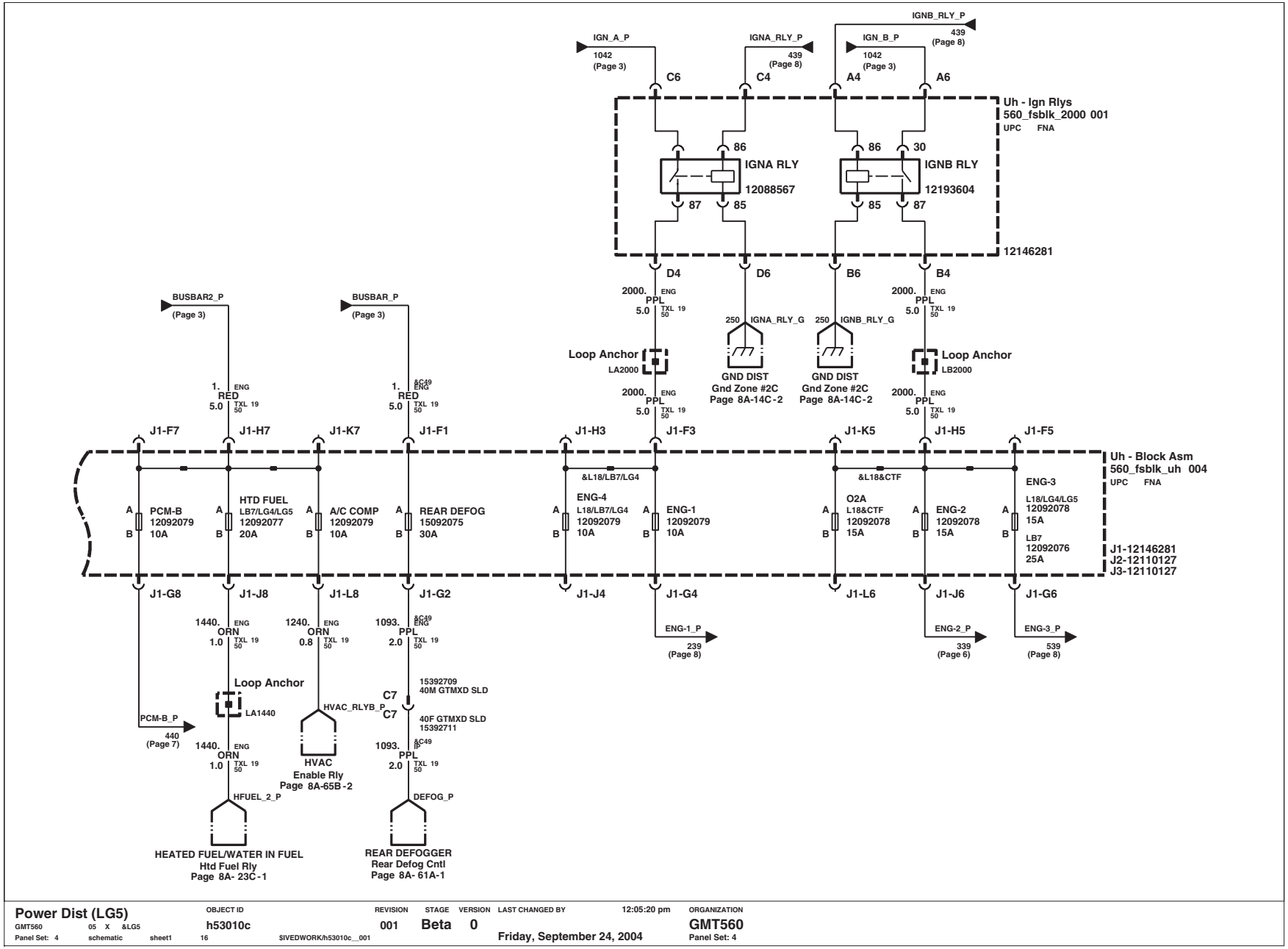


RPO LEGEND

JE3 - HYDRAULIC BRAKES
RQ3 - TRACTOR
U86 - TRAILER WIRING
FAM3 - FAMILY 3

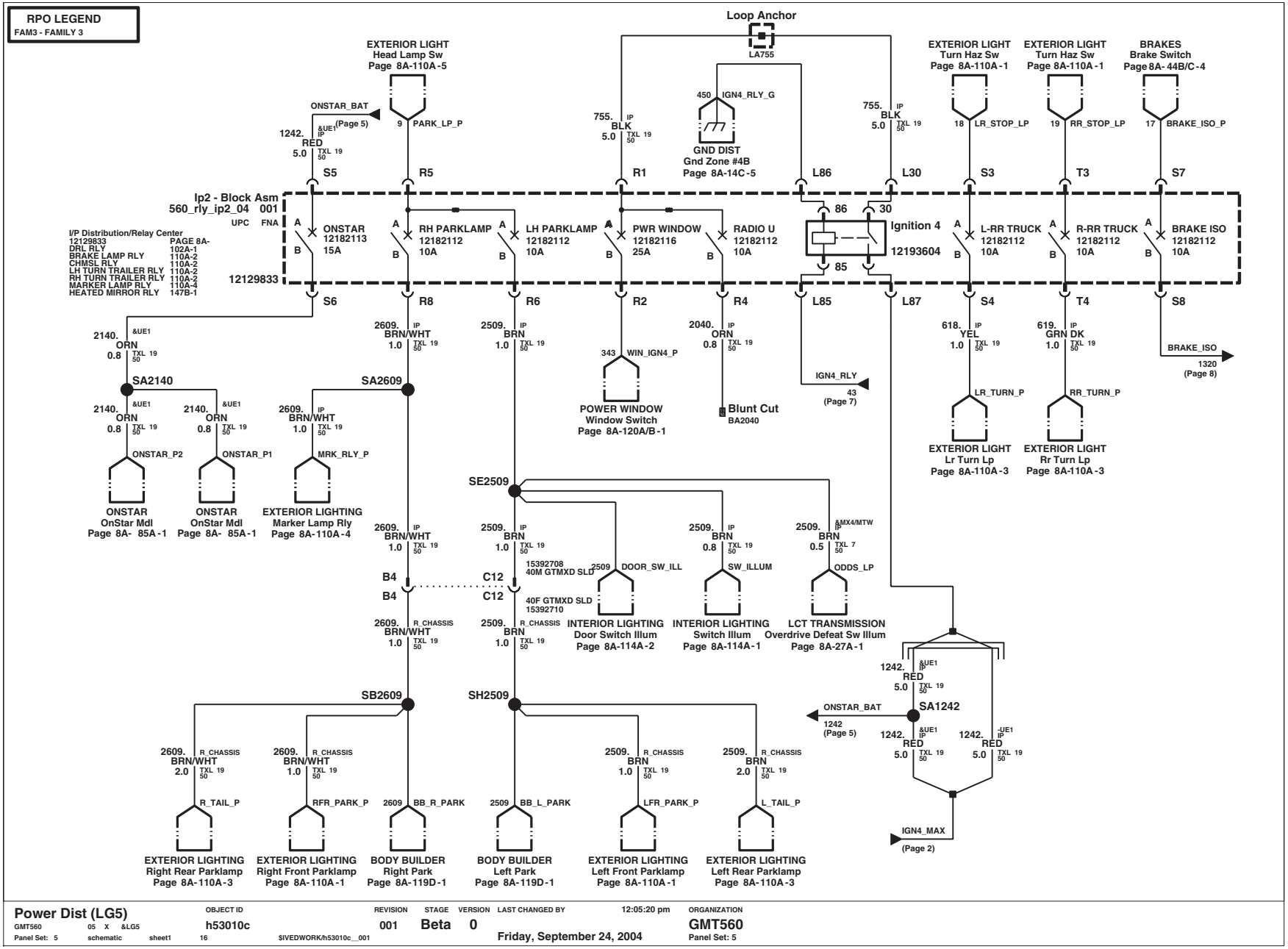
Power Dist (LG5)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY		ORGANIZATION
GMT560 05 X &LG5	h53010c	001	Beta	0		12:05:20 pm	GMT560
Panel Set: 3 schematic sheet1 16	$IVEDWORK/h53010c__001				Friday, September 24, 2004		Panel Set: 3

Power Distribution — (LG5) 7.2L-Diesel/CAT

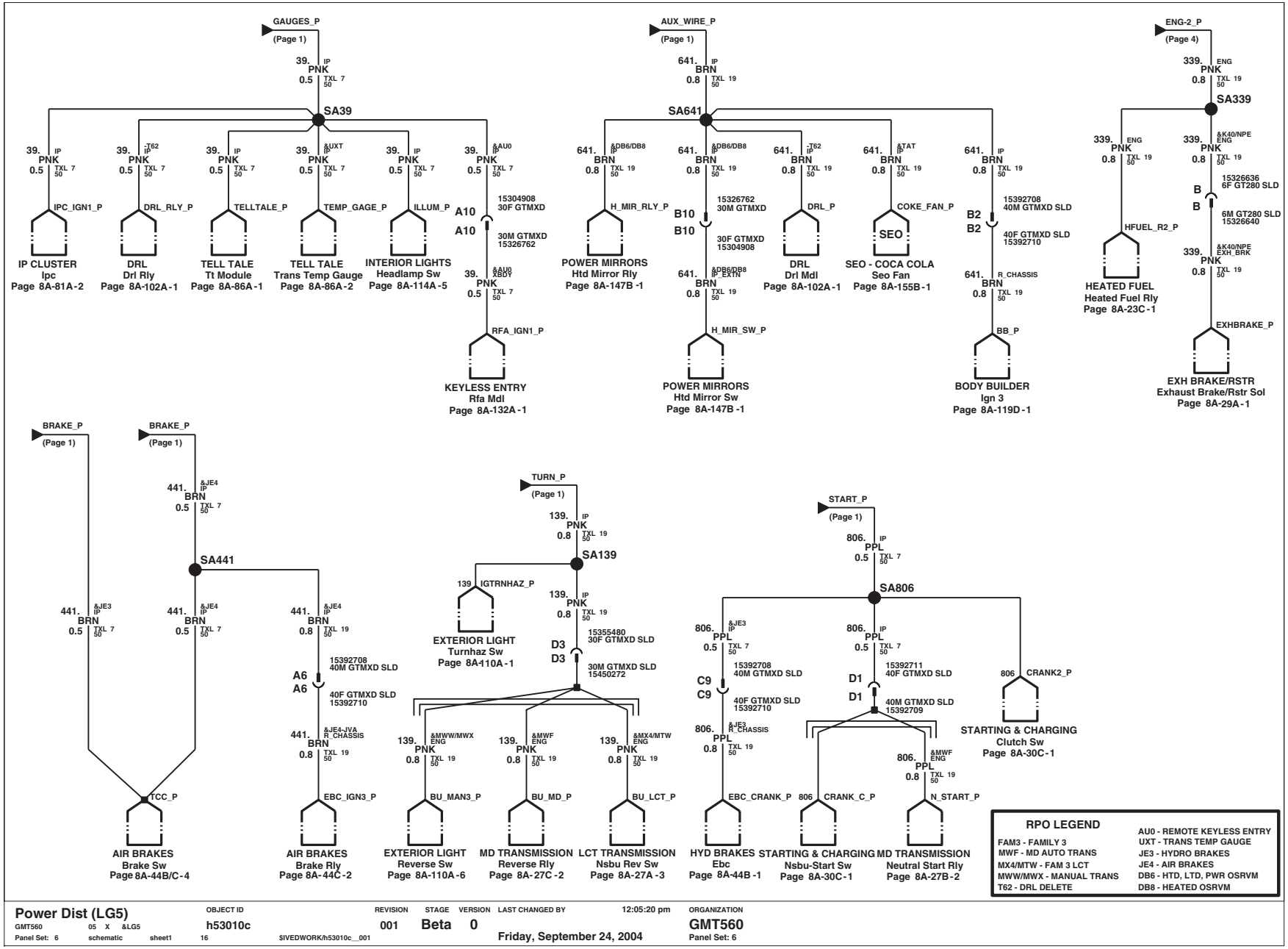


Power Dist (LG5)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY	12:05:20 pm	ORGANIZATION
GMT560 05 X &LG5	h53010c	001	Beta	0			GMT560
Panel Set: 4 schematic sheet1 16	$IVEDWORK/h53010c__001				Friday, September 24, 2004		Panel Set: 4

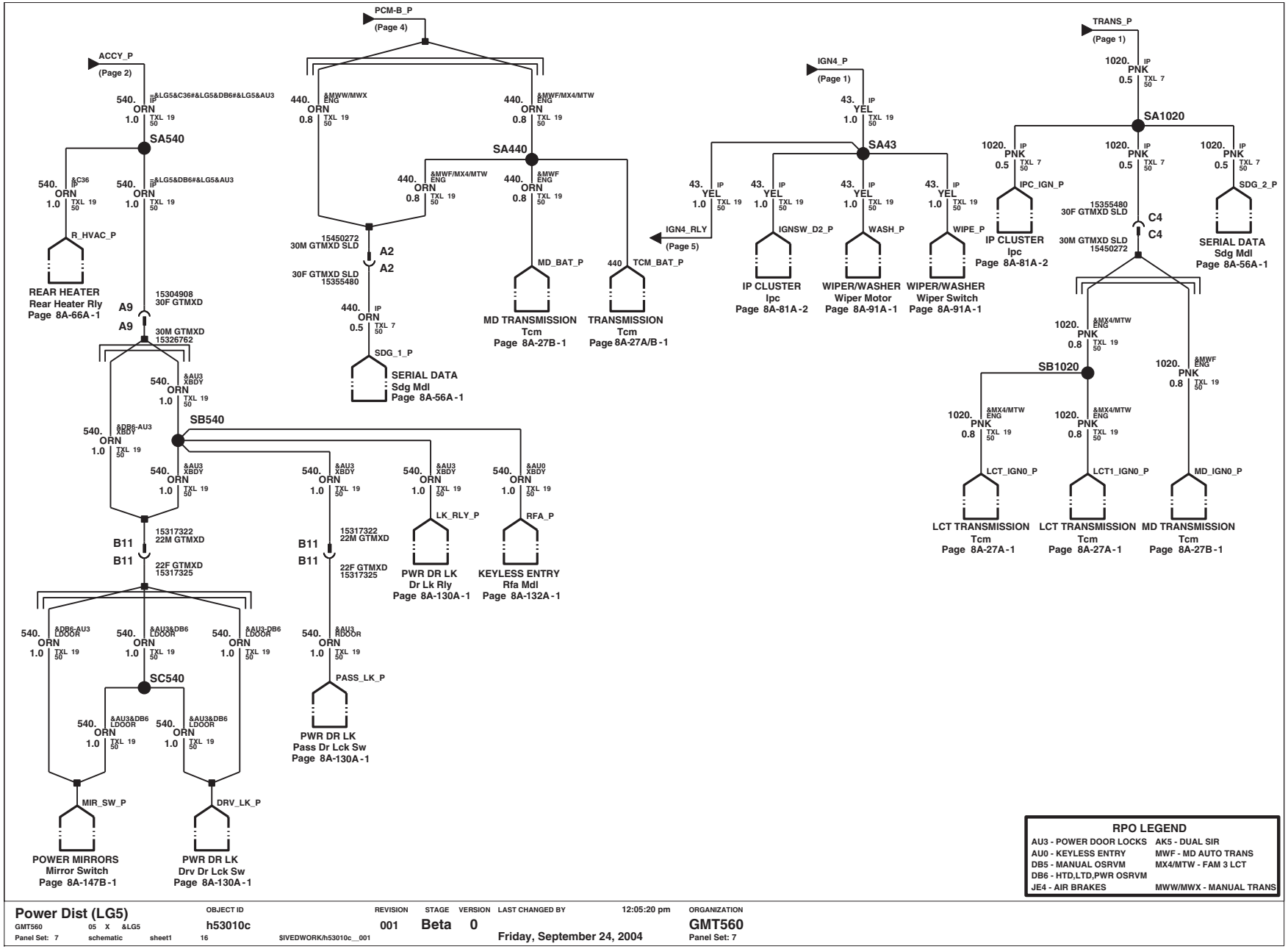
Power Distribution — (LG5) 7.2L-Diesel/CAT



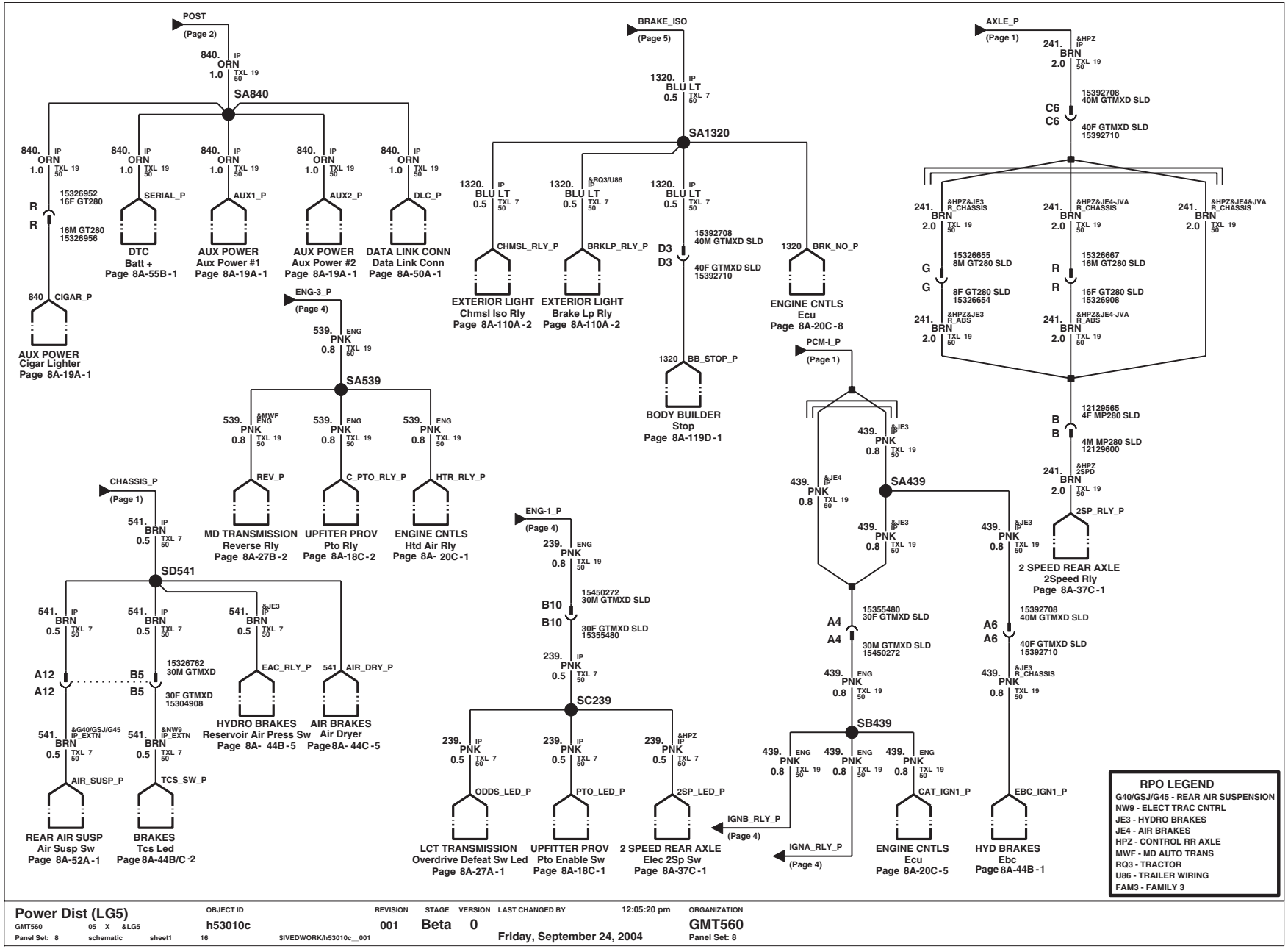
Power Distribution — (LG5) 7.2L-Diesel/CAT



Power Distribution — (LG5) 7.2L-Diesel/CAT

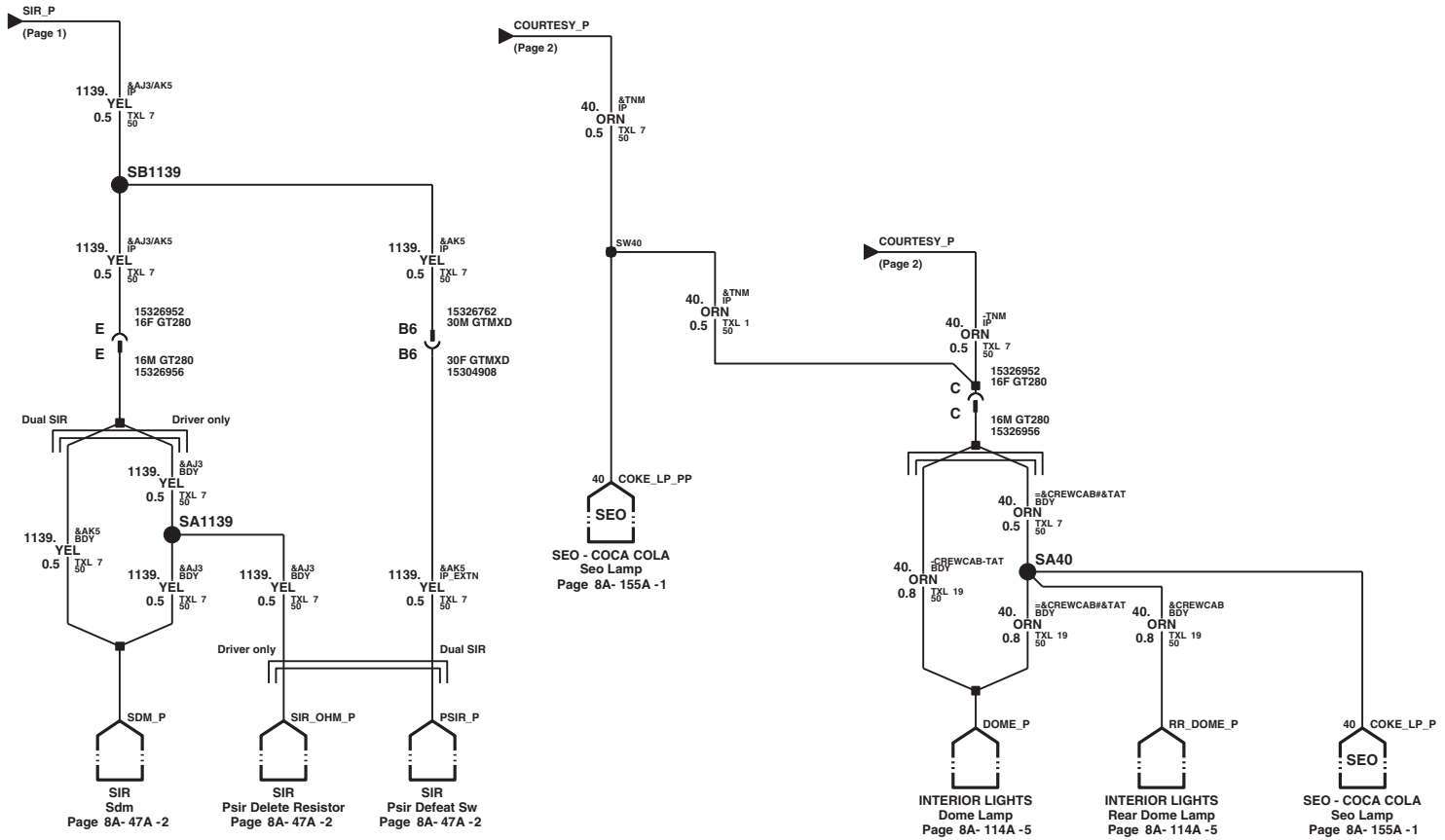


Power Distribution — (LG5) 7.2L-Diesel/CAT



Power Distribution — (LG5) 7.2L-Diesel/CAT

04	560 000	TY	BETA - INITIAL CREATION	18SE01	001
04	560 1149	JG	TRANS RPO UPDATE	13DE01	001
04	560 1207	JG	SEO - Coca Cola	19MR02	001
04	560 1228	JG	Add ABS delete option	03MY02	001
04	560 1228	AVM	LG5 PCM-B FUSE change from 20 to 25 Amps	23SE02	001



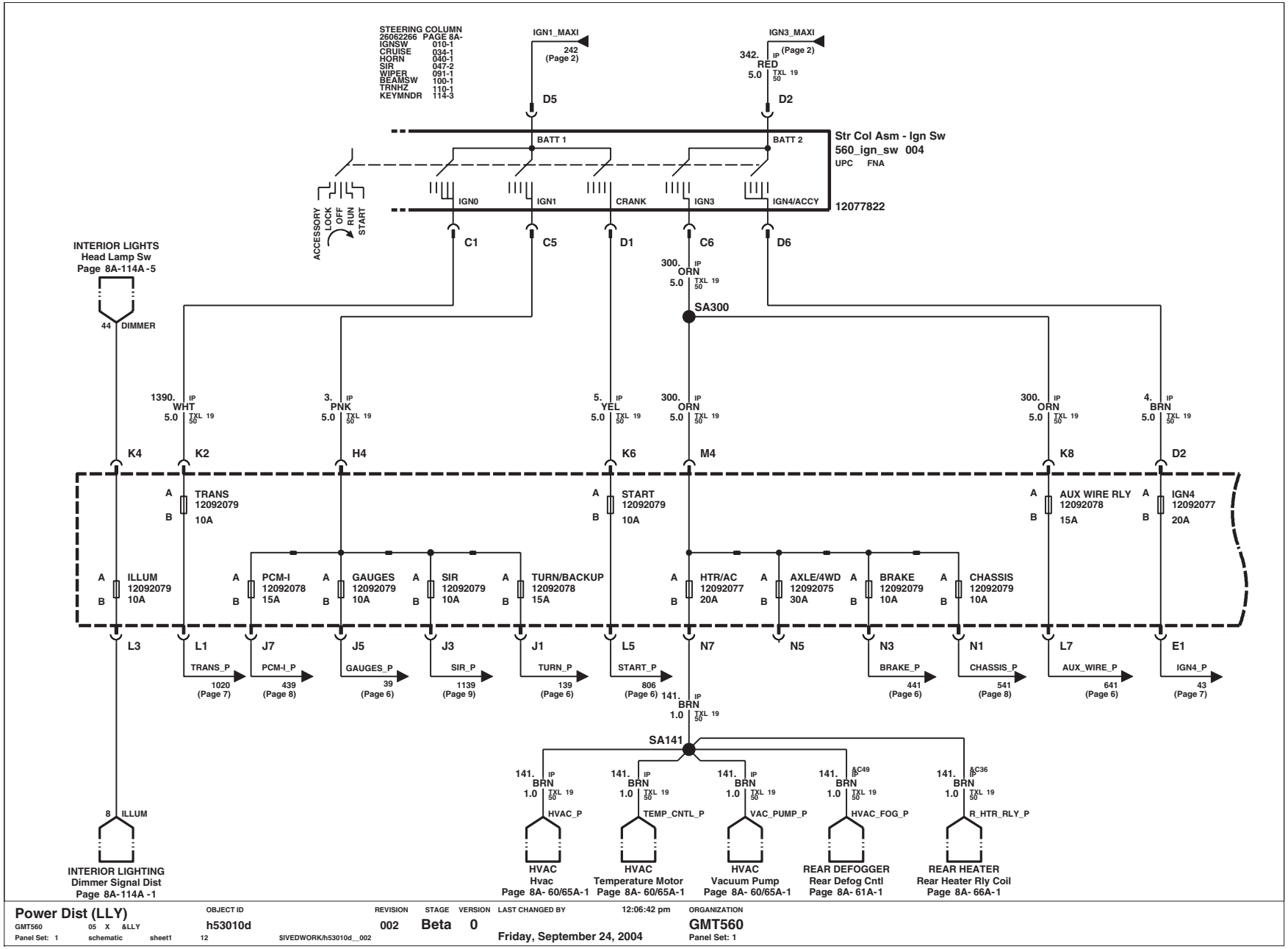
RPO LEGEND
AJ3 - DRIVER SIR
AK5 - DUAL SIR
CREWCAB - CREW CAB

Power Dist (LG5)
GMT560 05 X &LG5 Panel Set: 9 schematic sheet1 16

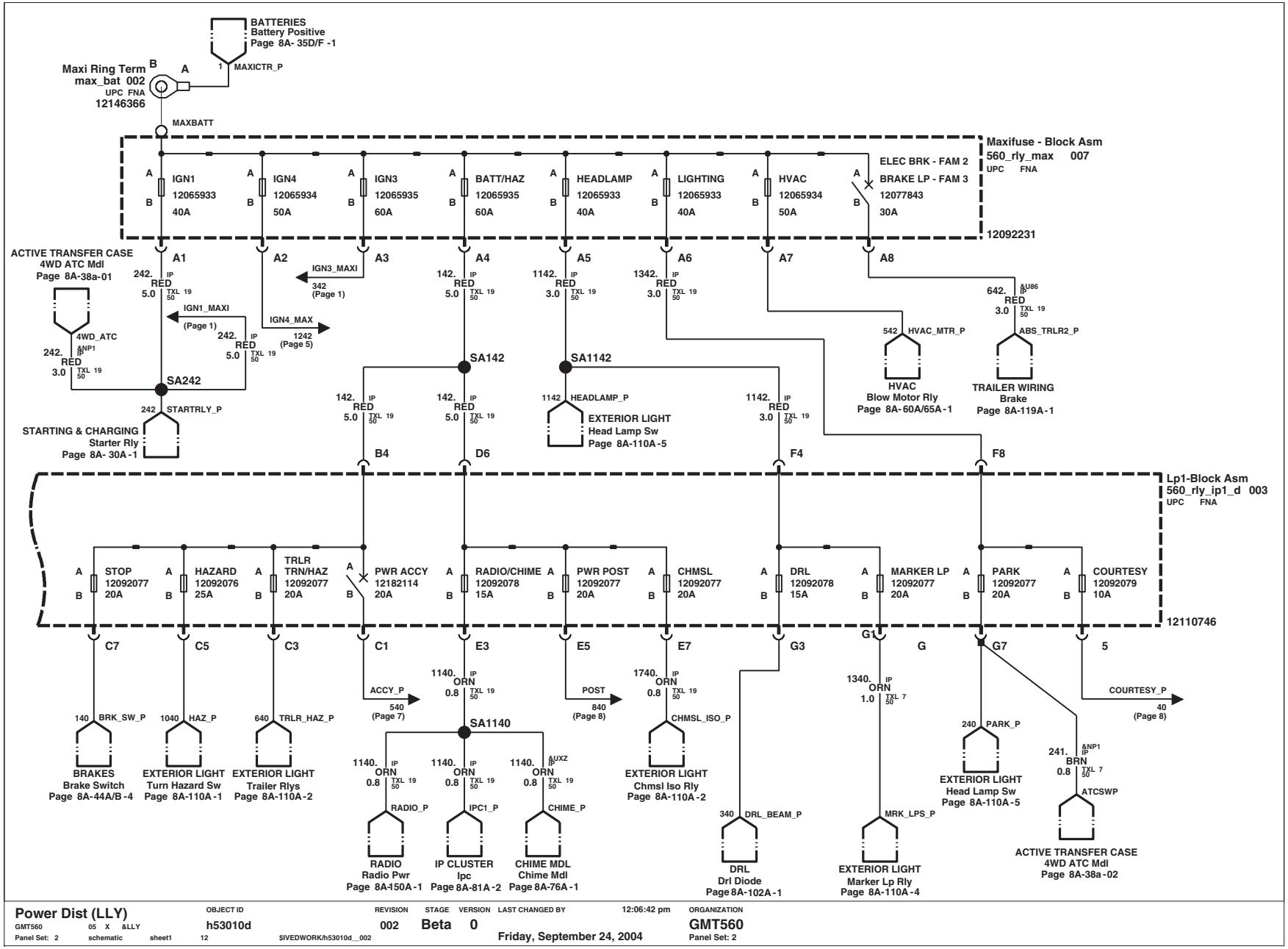
OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY	12:05:20 pm	ORGANIZATION
h53010c	001	Beta	0	Friday, September 24, 2004		GMT560

$IVEDWORK/h53010c__001 Panel Set: 9

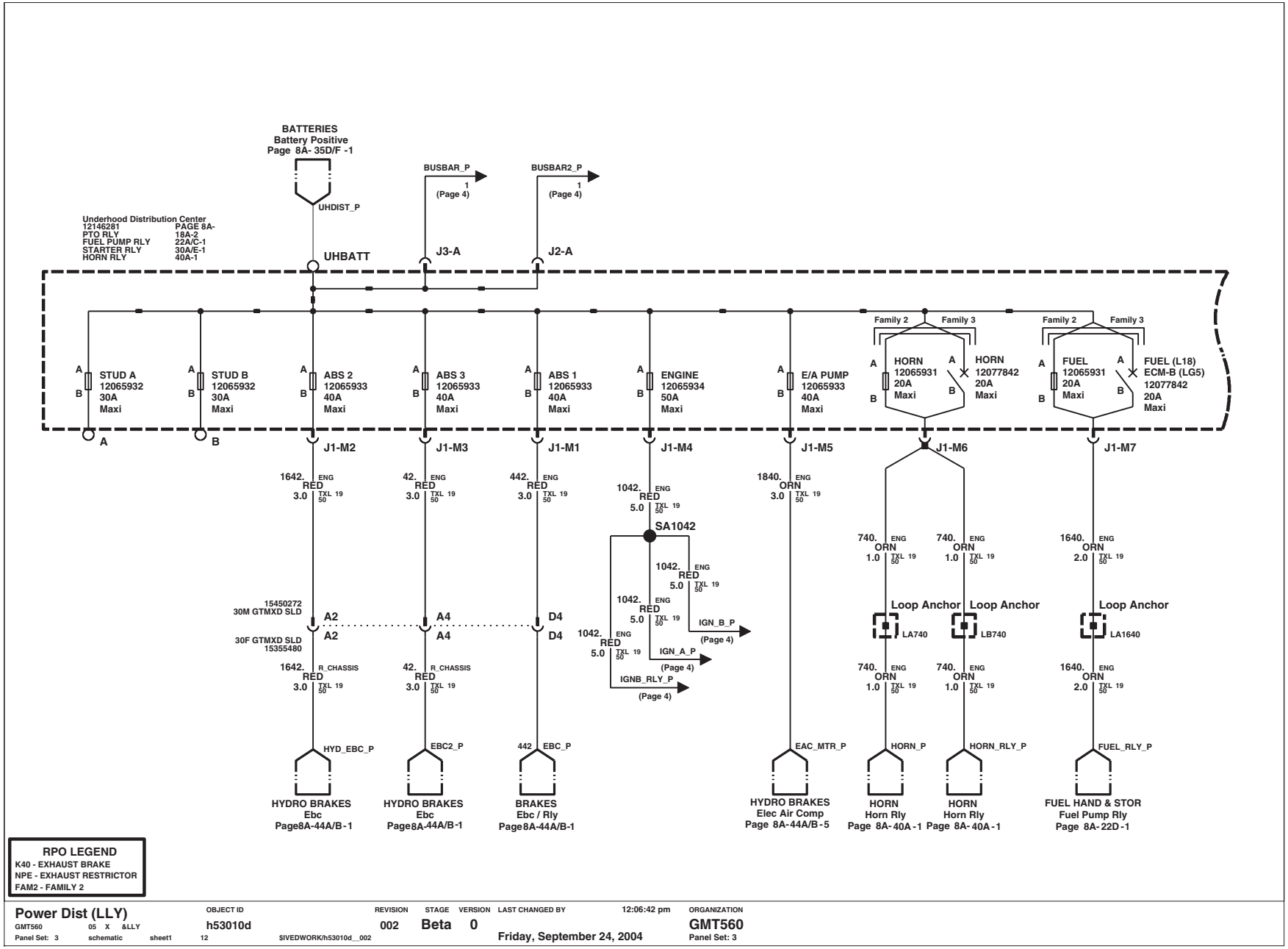
Power Distribution — (LLY) 6.6L-Diesel/Duramax



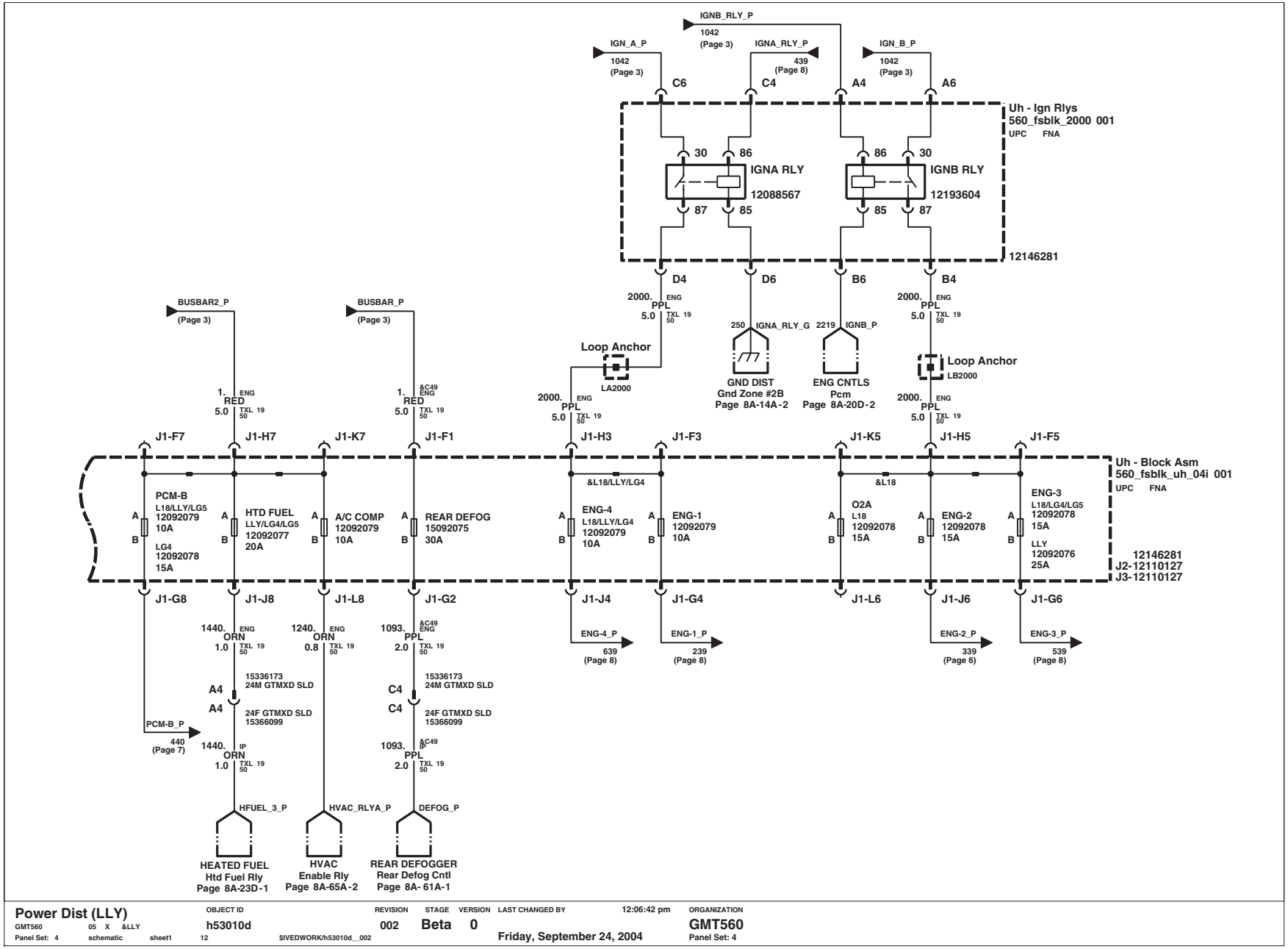
Power Distribution — (LLY) 6.6L-Diesel/Duramax



Power Distribution — (LLY) 6.6L-Diesel/Duramax

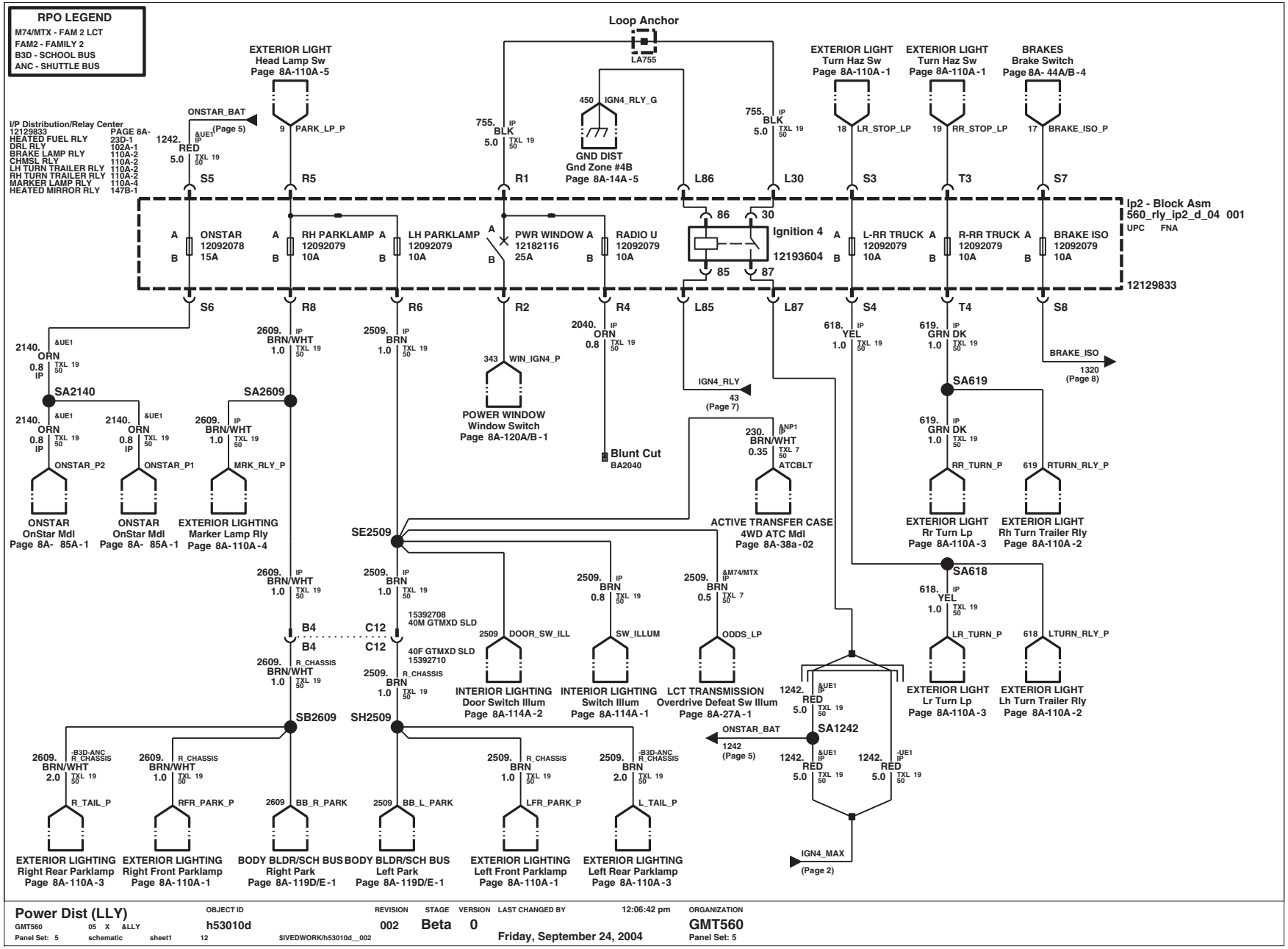


Power Distribution — (LLY) 6.6L-Diesel/Duramax

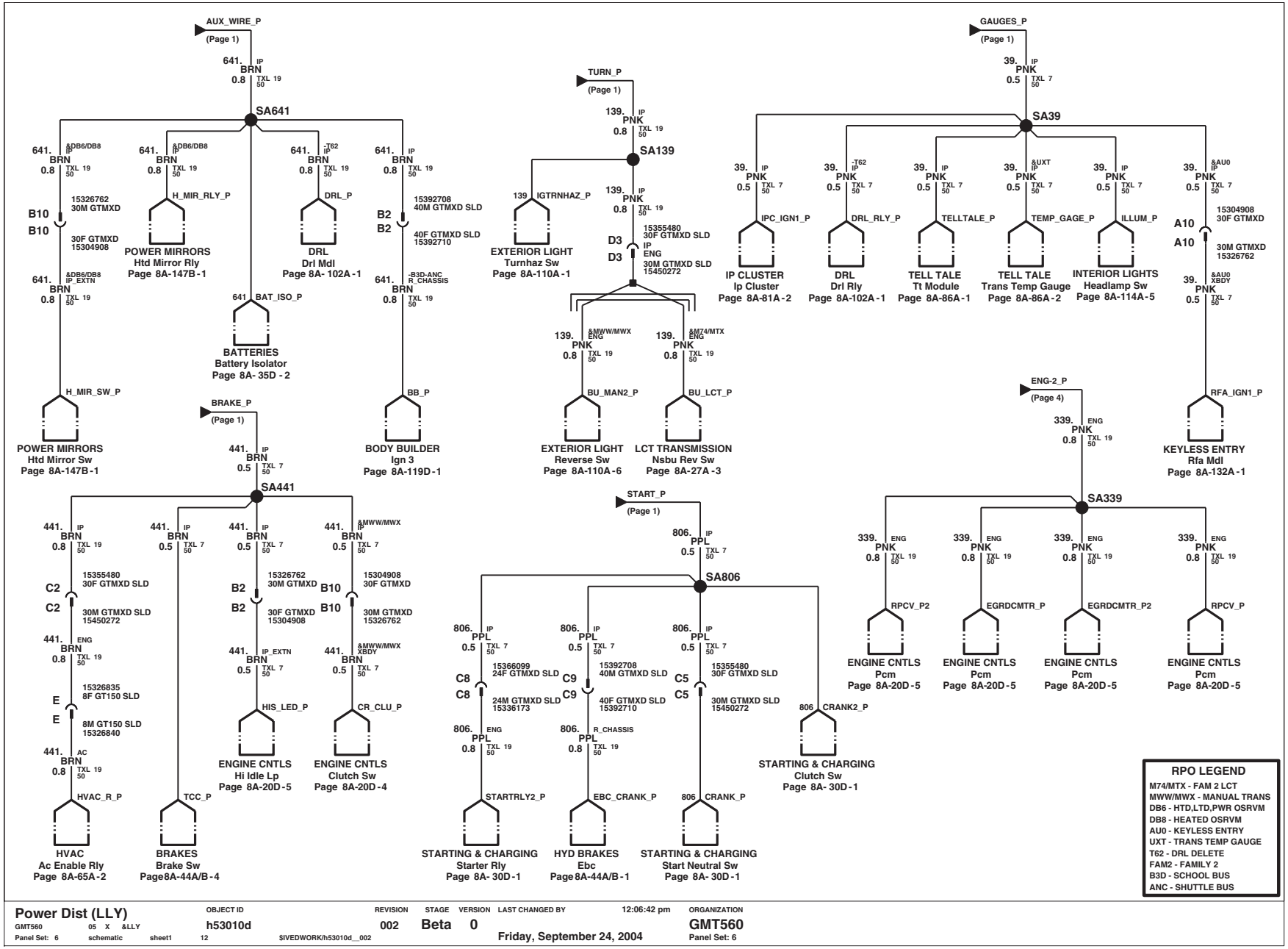


Power Dist (LLY)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY		ORGANIZATION
GMT560 05 X &LLY	h53010d	002	Beta	0		12:06:42 pm	GMT560
Panel Set: 4 schematic sheet1 12	$IVEDWORK/h53010d__002				Friday, September 24, 2004		Panel Set: 4

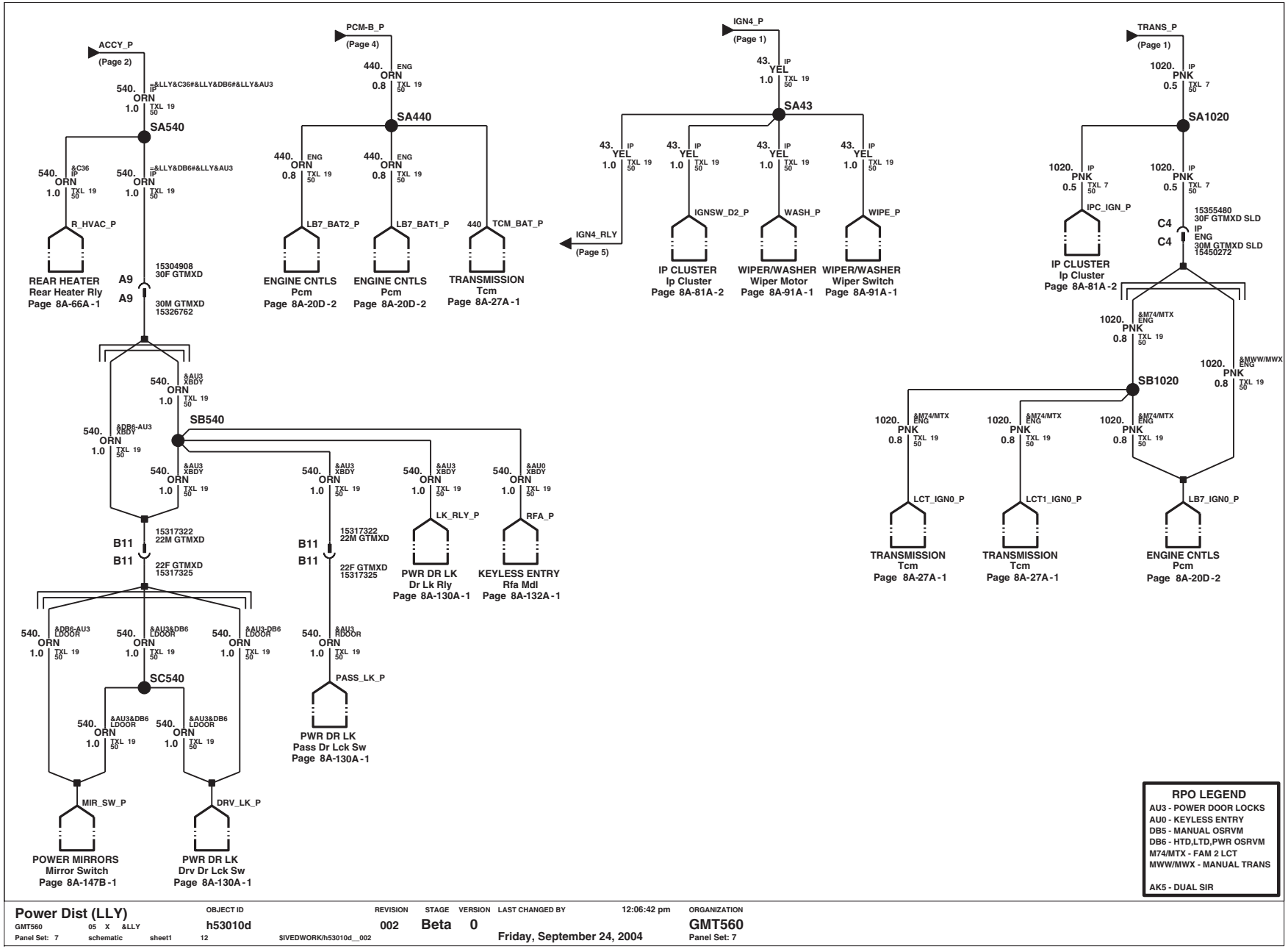
Power Distribution — (LLY) 6.6L-Diesel/Duramax



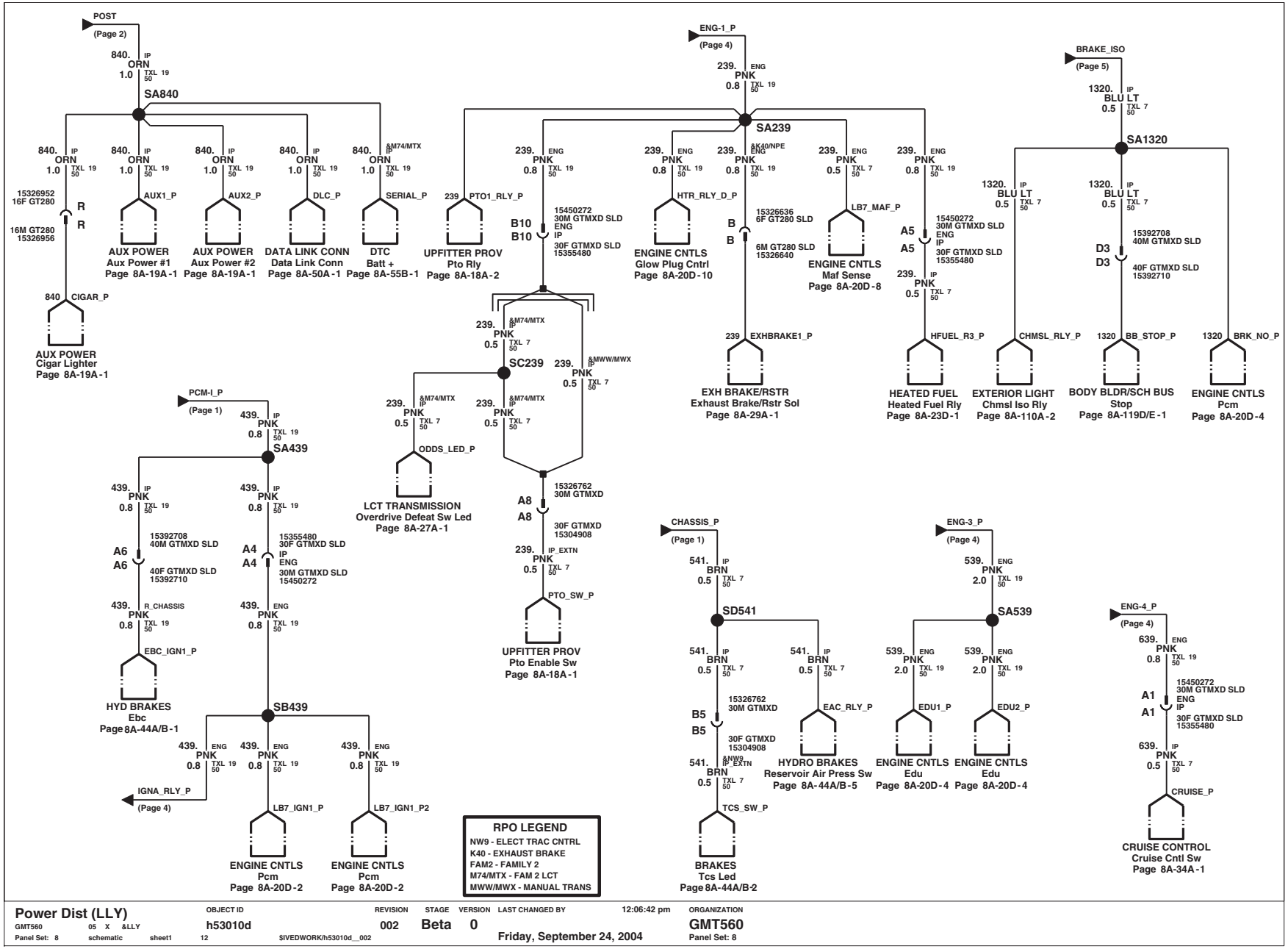
Power Distribution — (LLY) 6.6L-Diesel/Duramax



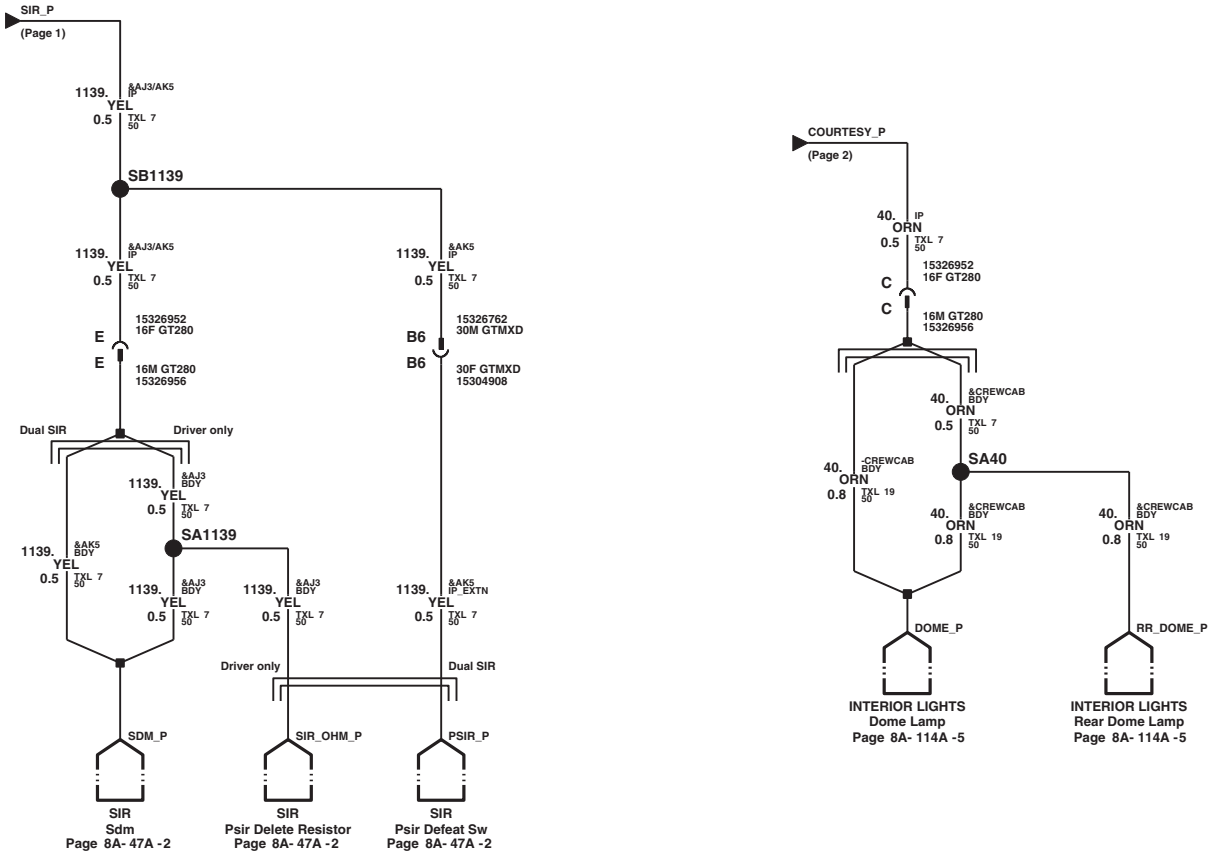
Power Distribution — (LLY) 6.6L-Diesel/Duramax



Power Distribution — (LLY) 6.6L-Diesel/Duramax



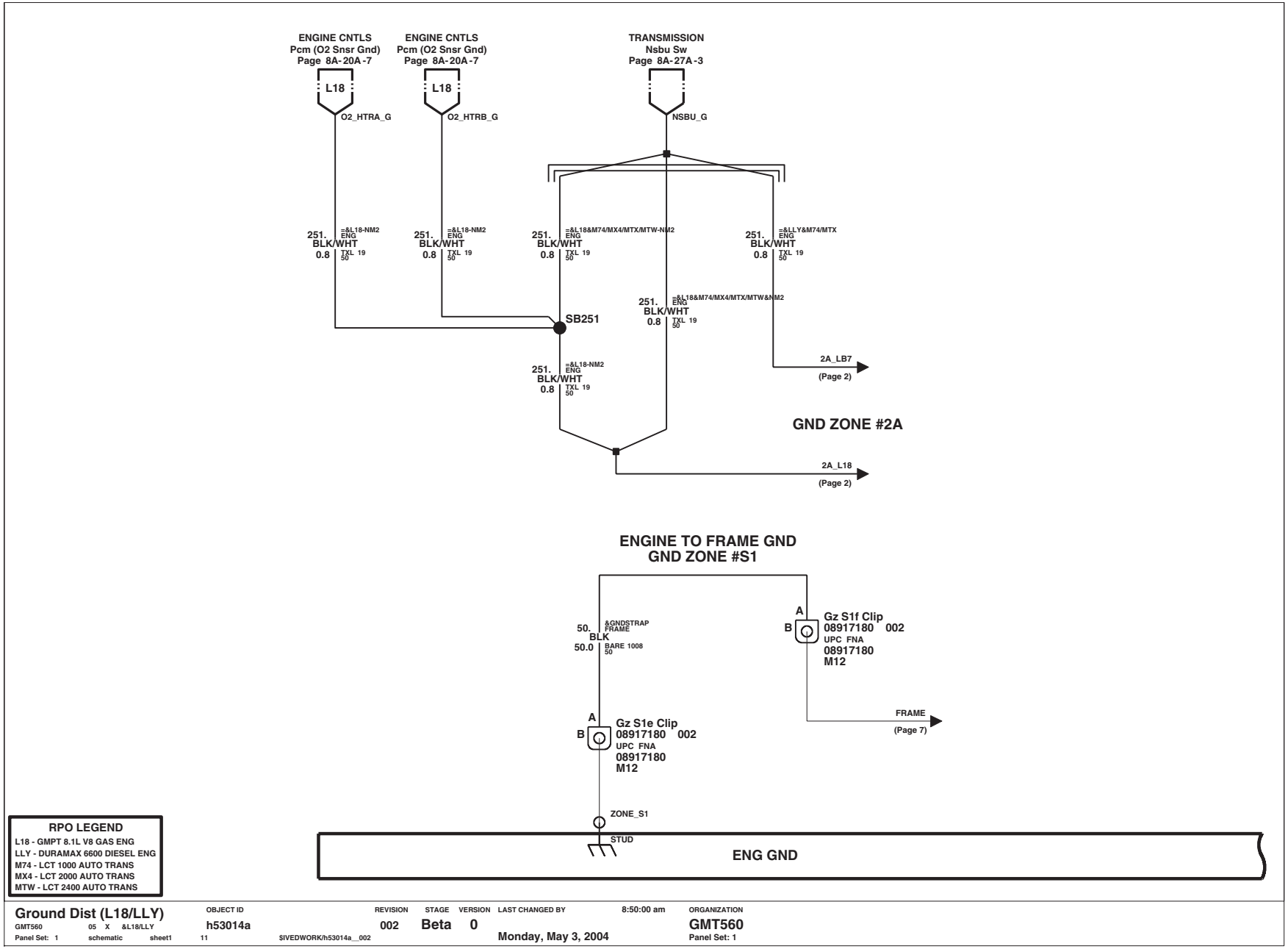
Power Distribution — (LLY) 6.6L-Diesel/Duramax


SIR_P
(Page 1)
1139. &AJ3/AK5 IP YEL 0.5 TXL 7 50
SB1139
1139. &AJ3/AK5 IP YEL 0.5 TXL 7 50
E 15326952 16F GT280
E 16M GT280 15326956
1139. &AK5 IP YEL 0.5 TXL 7 50
B6 15326762 30M GTMXD
B6 30F GTMXD 15304908
Dual SIR
Driver only
1139. &AJ3 BDY YEL 0.5 TXL 7 50
SA1139
1139. &AK5 BDY YEL 0.5 TXL 7 50
1139. &AJ3 BDY YEL 0.5 TXL 7 50
1139. &AJ3 BDY YEL 0.5 TXL 7 50
1139. &AK5 IP_EXTN YEL 0.5 TXL 7 50
Driver only
Dual SIR
SDM_P
SIR_OHM_P
PSIR_P
SIR Sdm Page 8A- 47A -2
SIR Psir Delete Resistor Page 8A- 47A -2
SIR Psir Defeat Sw Page 8A- 47A -2
COURTESY_P
(Page 2)
40. IP ORN 0.5 TXL 7 50
C 15326952 16F GT280
C 16M GT280 15326956
40. &CREWCAB BDY ORN 0.5 TXL 7 50
40. CREWCAB BDY ORN 0.8 TXL 19 50
SA40
40. &CREWCAB BDY ORN 0.8 TXL 19 50
40. &CREWCAB BDY ORN 0.8 TXL 19 50
DOME_P
RR_DOME_P
INTERIOR LIGHTS Dome Lamp Page 8A- 114A -5
INTERIOR LIGHTS Rear Dome Lamp Page 8A- 114A -5

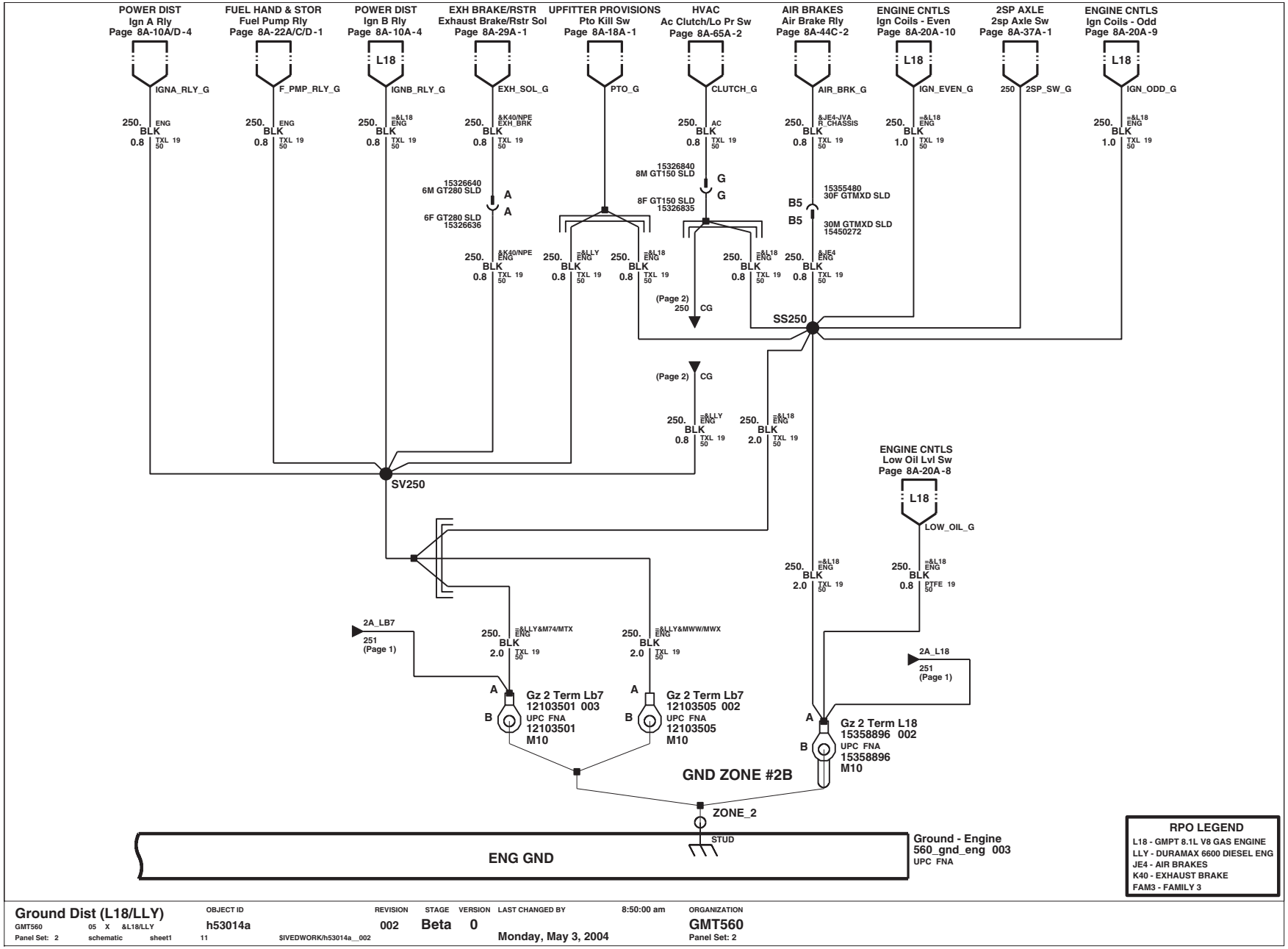
RPO LEGEND
AJ3 - DRIVER SIR
AK5 - DUAL SIR
CREWCAB - CREW CAB

Power Dist (LLY)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY	12:06:42 pm	ORGANIZATION
GMT560 05 X &LLY	h53010d	002	Beta	0			GMT560
Panel Set: 9 schematic sheet1 12	$IVEDWORK/h53010d__002				Friday, September 24, 2004		Panel Set: 9

Ground Distribution — (L18) 8.1L-Gas/NAPT — (LLY) 6.6L-Diesel/Duramax



Ground Distribution — (L18) 8.1L-Gas/NAPT — (LLY) 6.6L-Diesel/Duramax

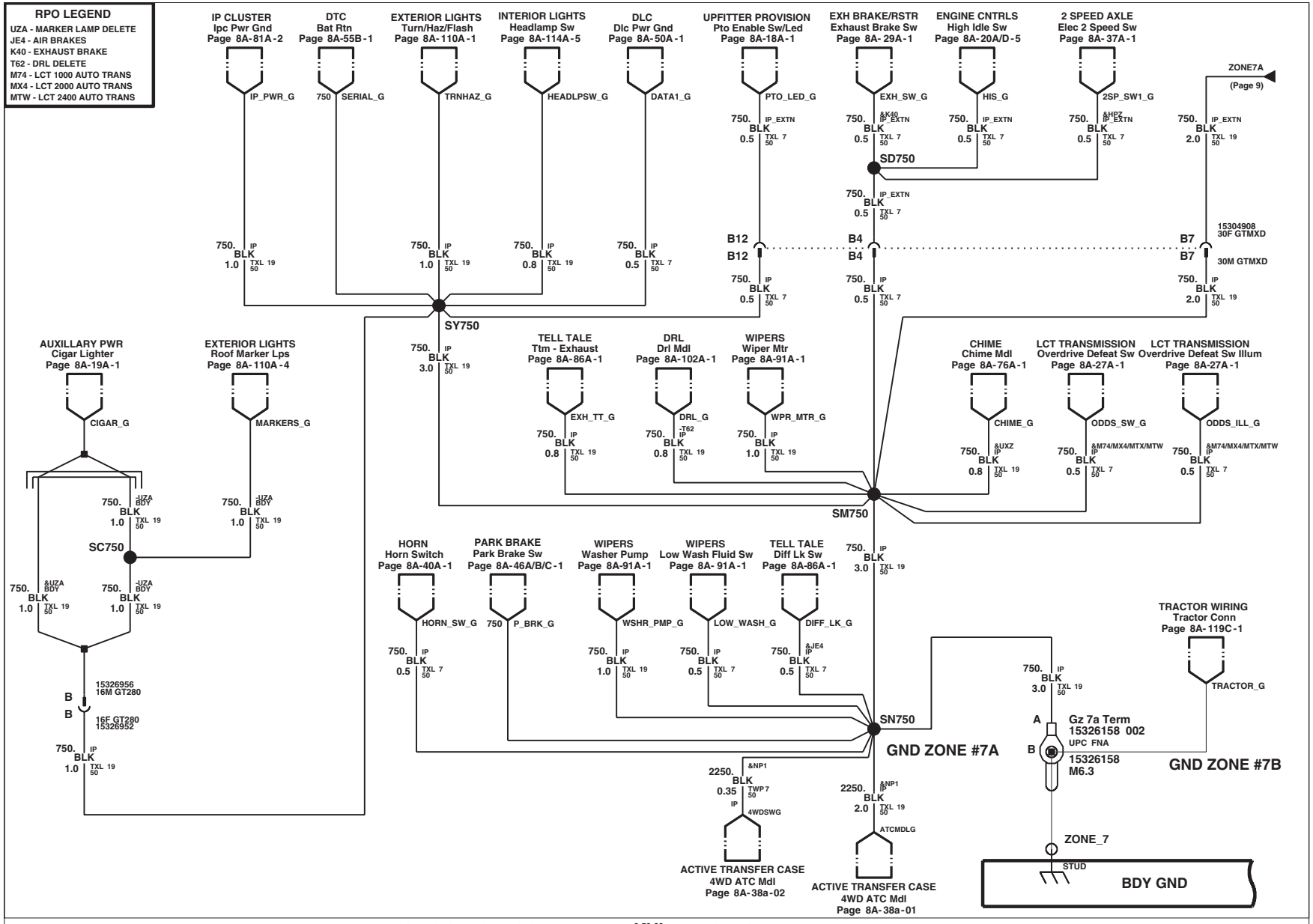


Ground Dist (L18/LLY)

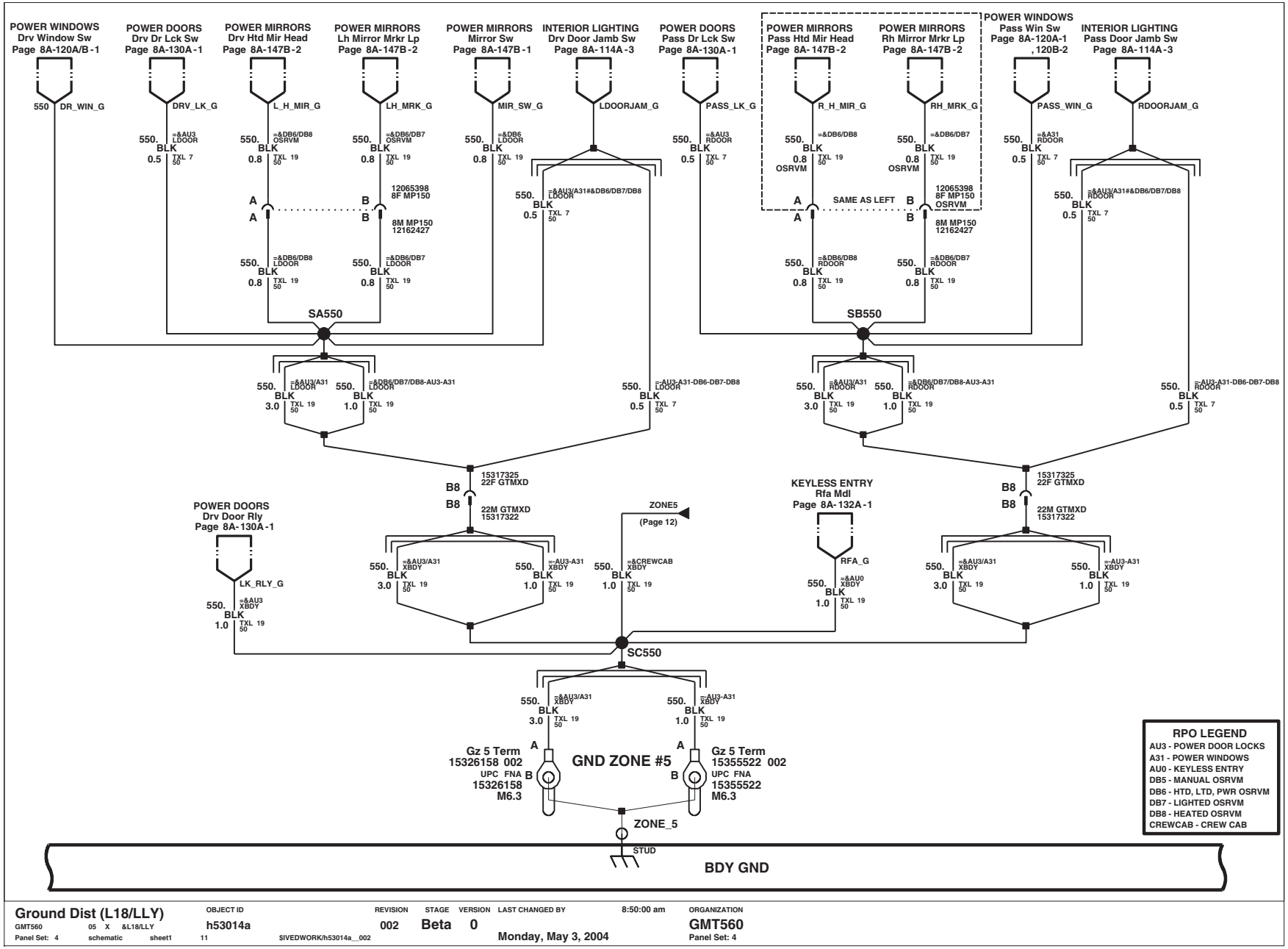
OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY		ORGANIZATION
h53014a	002	Beta	0	Monday, May 3, 2004	8:50:00 am	GMT560

GMT560 05 X &L18/LLY — Panel Set: 2 — schematic — sheet1 11 — $IVEDWORK/h53014a__002 — Panel Set: 2

Ground Distribution — (L18) 8.1L-Gas/NAPT — (LLY) 6.6L-Diesel/Duramax

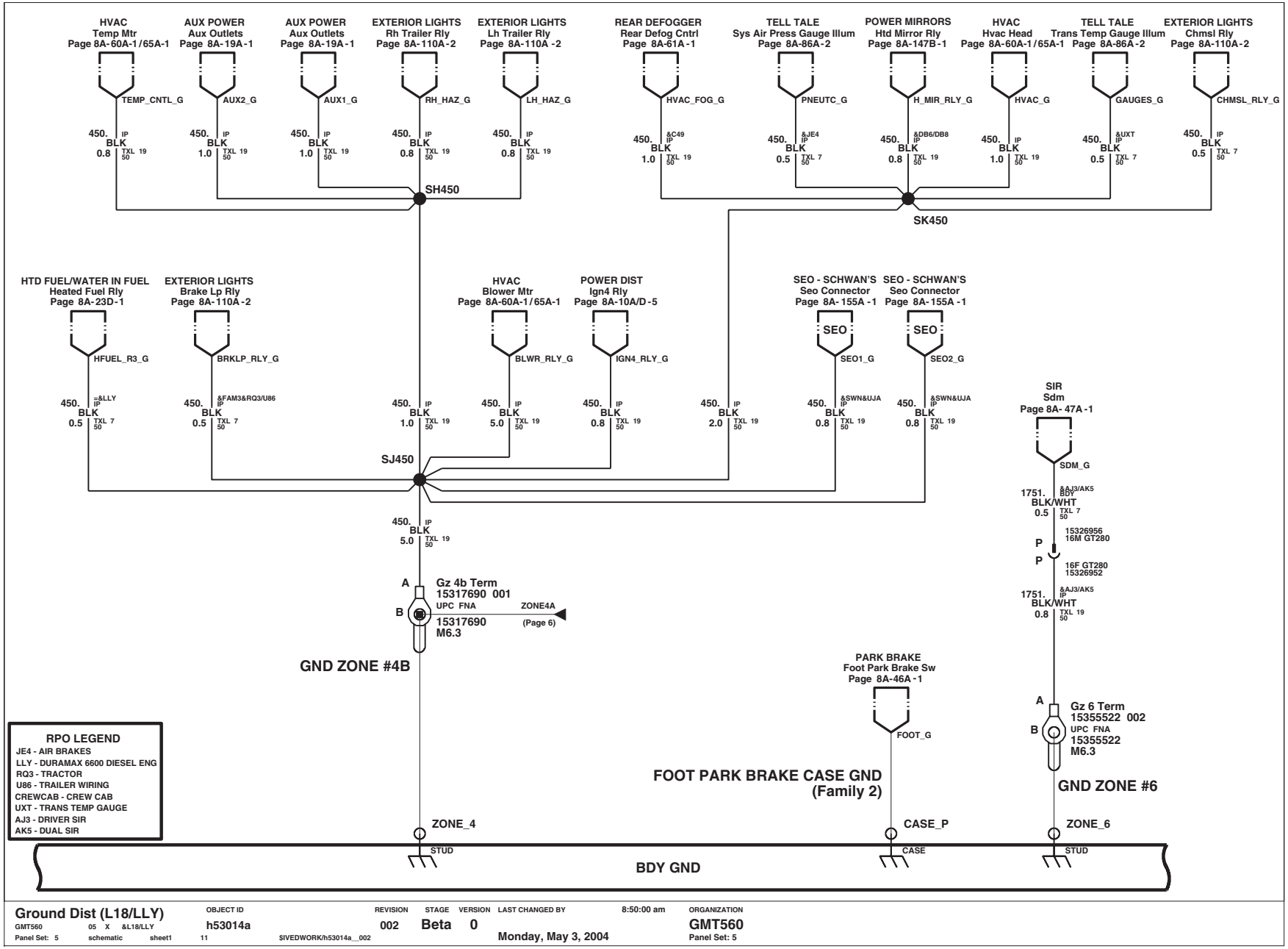


Ground Distribution — (L18) 8.1L-Gas/NAPT — (LLY) 6.6L-Diesel/Duramax

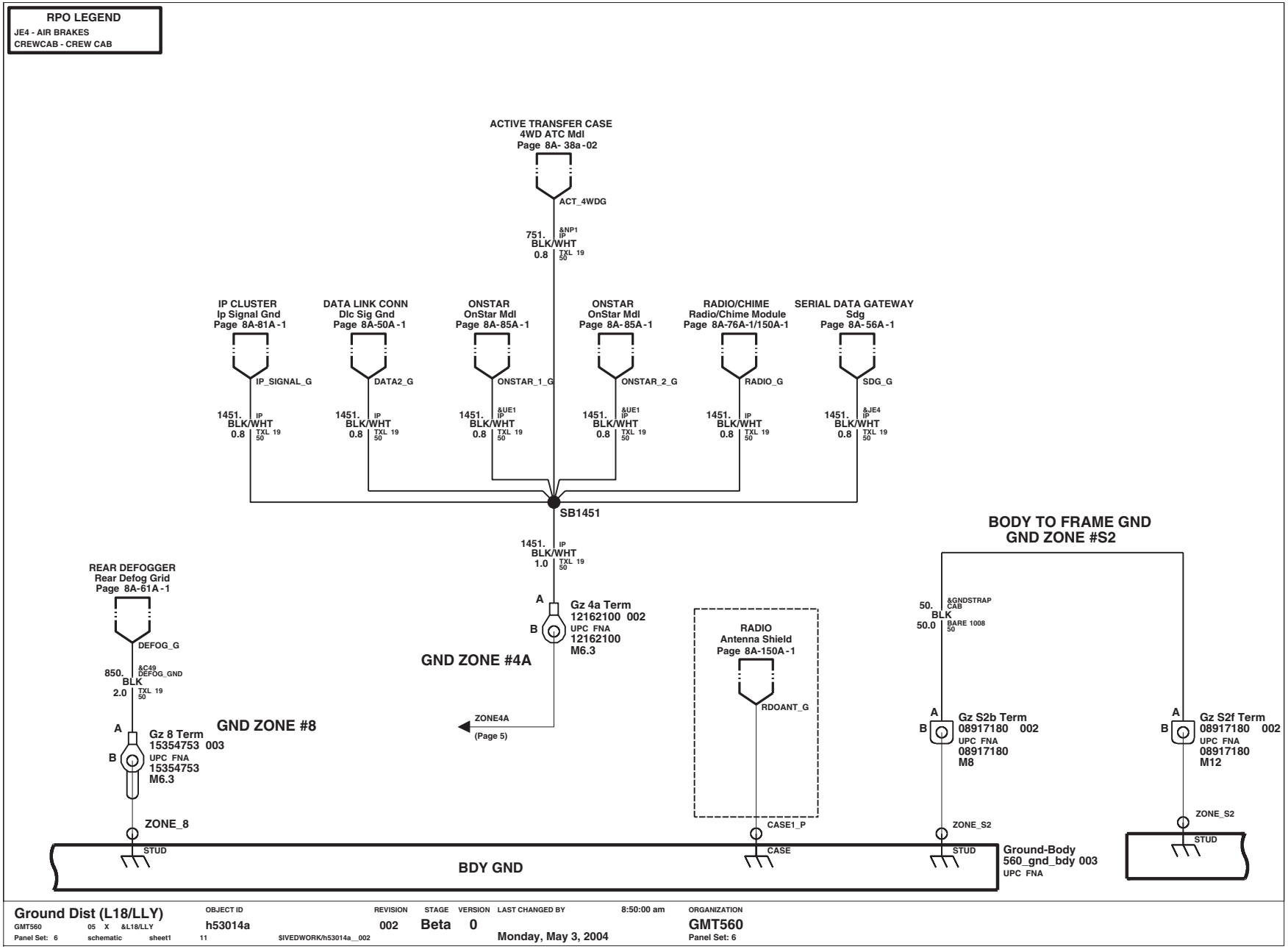


Ground Dist (L18/LLY)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY		ORGANIZATION
GMT560 05 X &L18/LLY	h53014a	002	Beta	0		8:50:00 am	GMT560
Panel Set: 4 schematic sheet1 11	$IVEDWORK/h53014a__002				Monday, May 3, 2004		Panel Set: 4

Ground Distribution — (L18) 8.1L-Gas/NAPT — (LLY) 6.6L-Diesel/Duramax

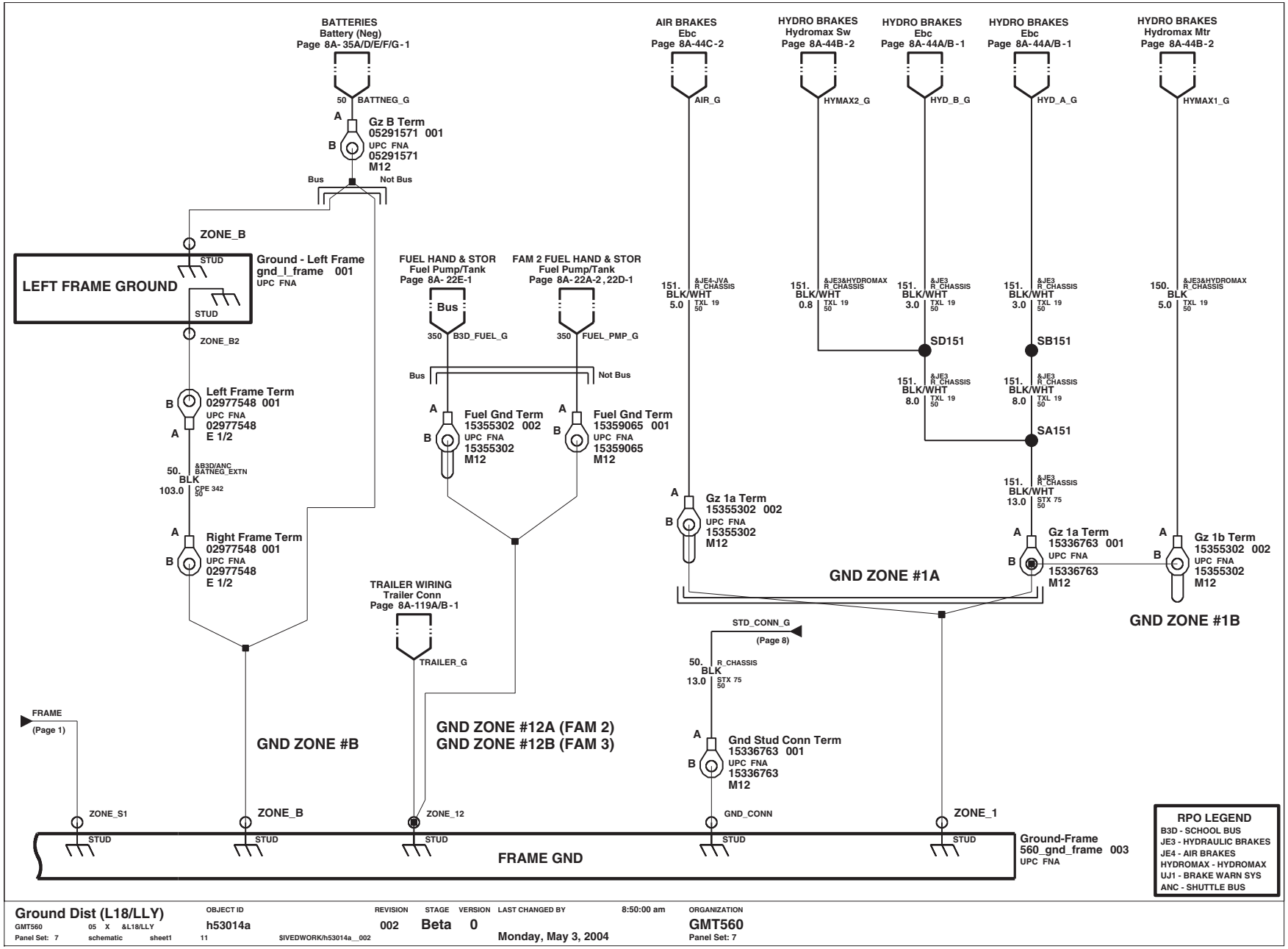


Ground Distribution — (L18) 8.1L-Gas/NAPT — (LLY) 6.6L-Diesel/Duramax

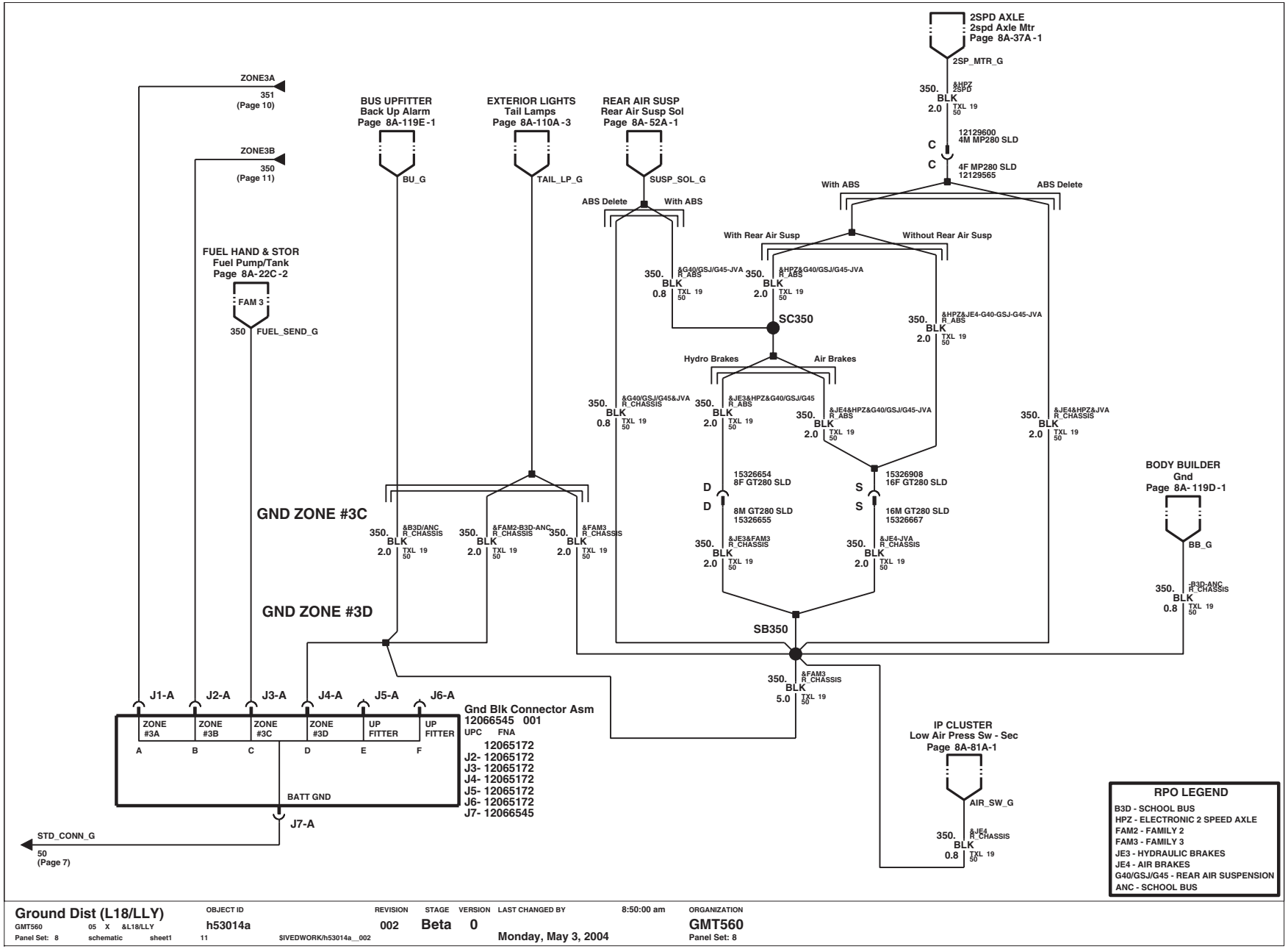


Ground Dist (L18/LLY)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY		ORGANIZATION
GMT560 05 X &L18/LLY	h53014a	002	Beta	0		8:50:00 am	GMT560
Panel Set: 6 schematic sheet1 11	$IVEDWORK/h53014a__002				Monday, May 3, 2004		Panel Set: 6

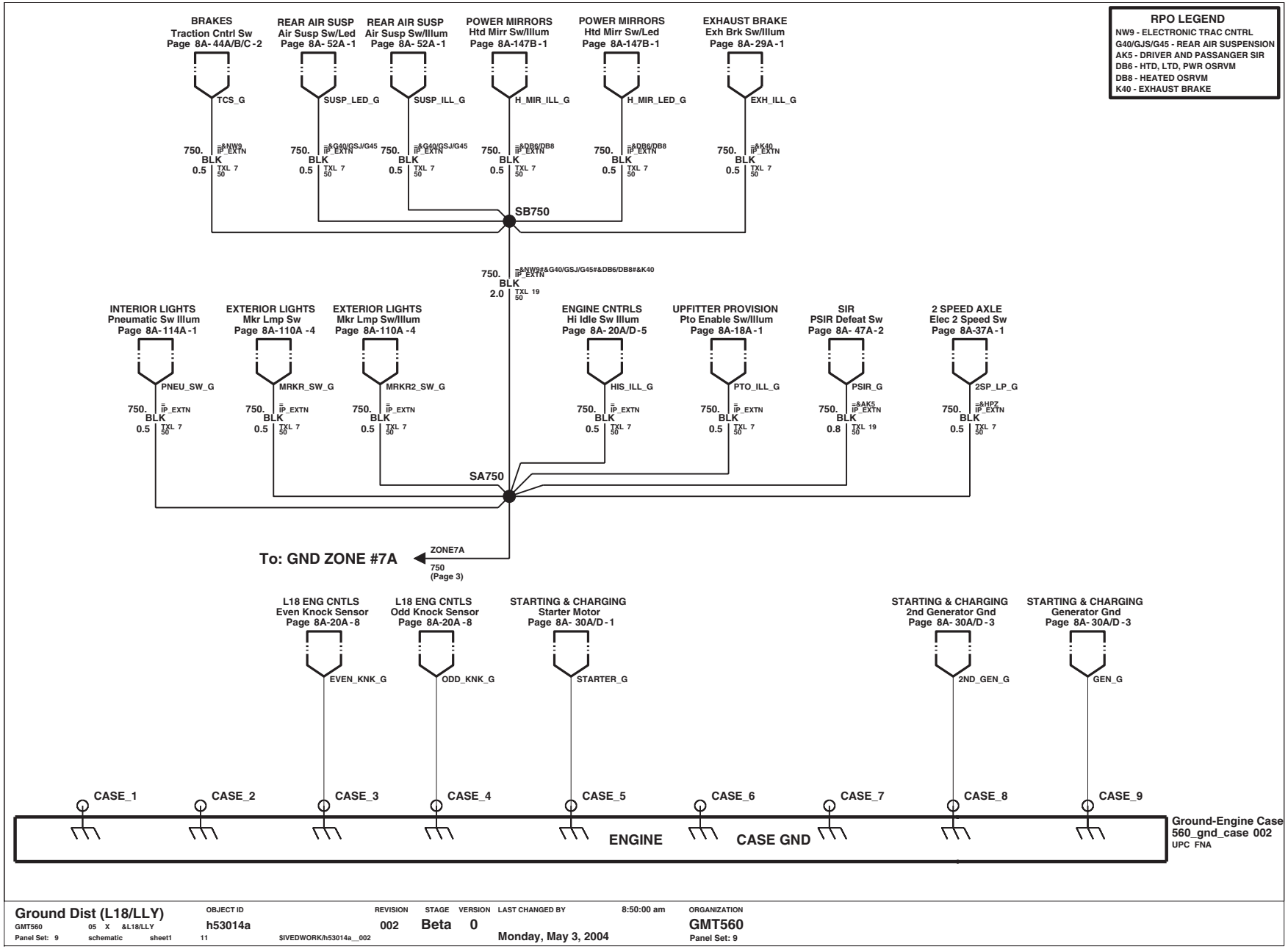
Ground Distribution — (L18) 8.1L-Gas/NAPT — (LLY) 6.6L-Diesel/Duramax



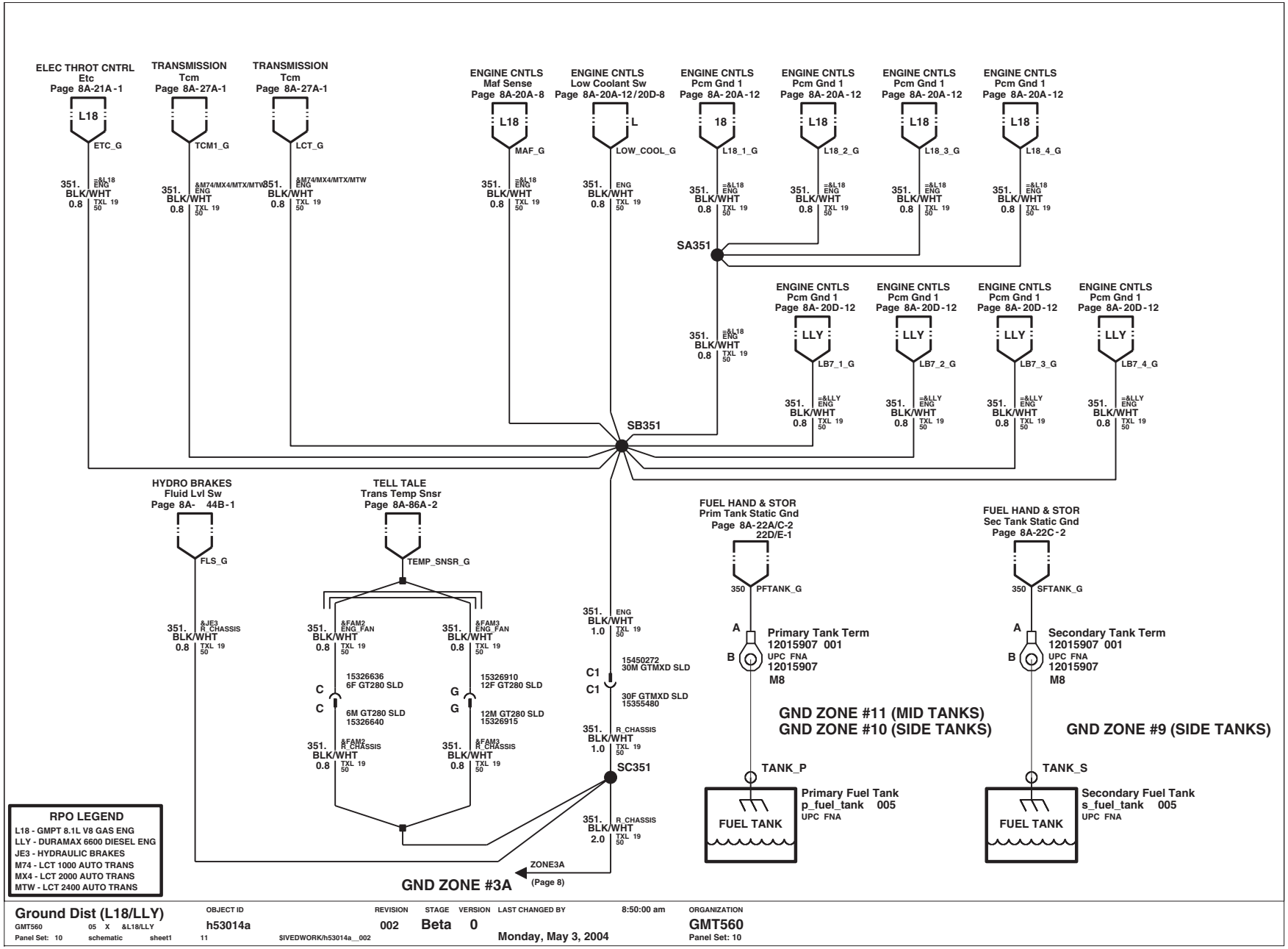
Ground Distribution — (L18) 8.1L-Gas/NAPT — (LLY) 6.6L-Diesel/Duramax



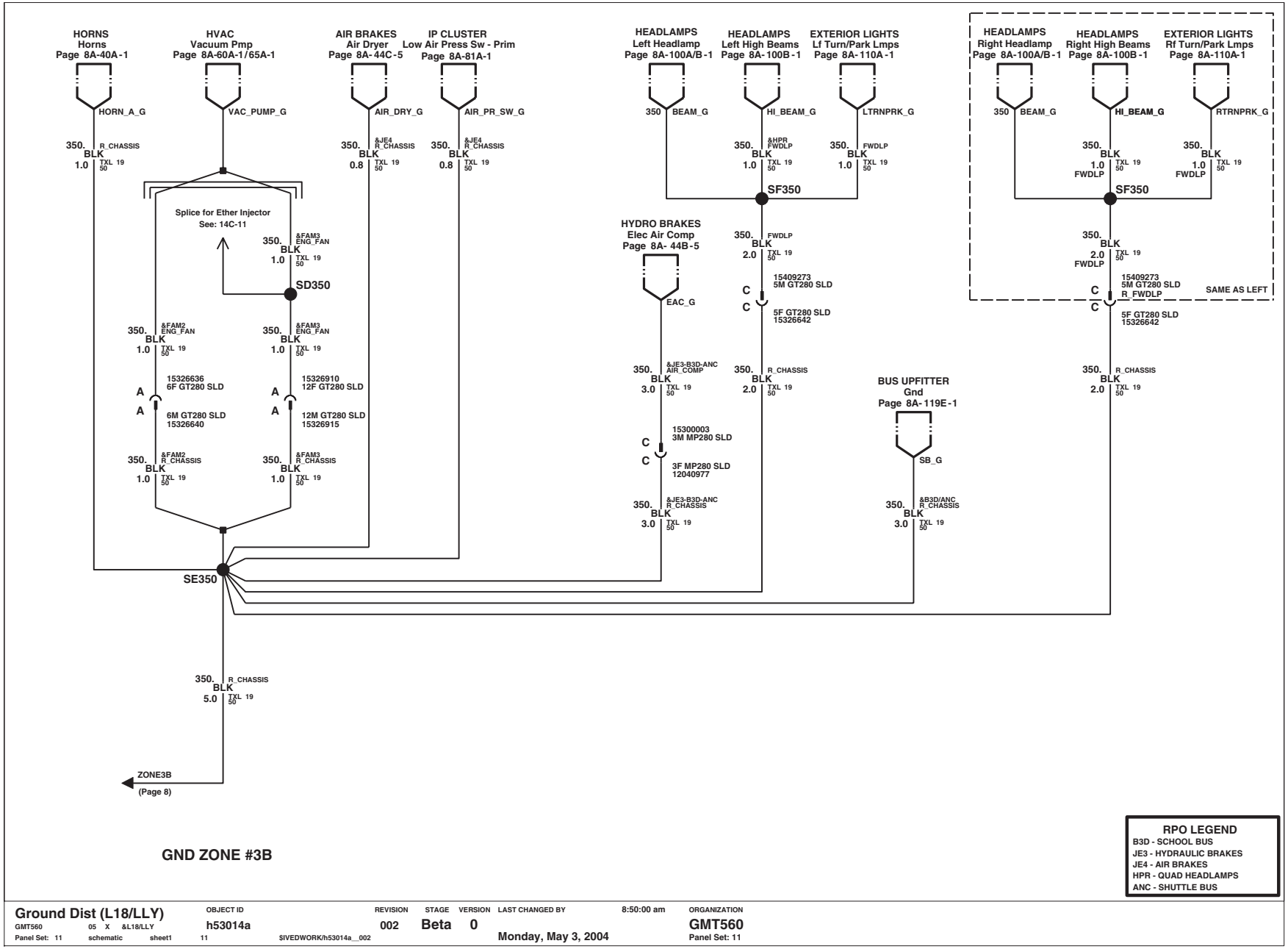
Ground Distribution — (L18) 8.1L-Gas/NAPT — (LLY) 6.6L-Diesel/Duramax



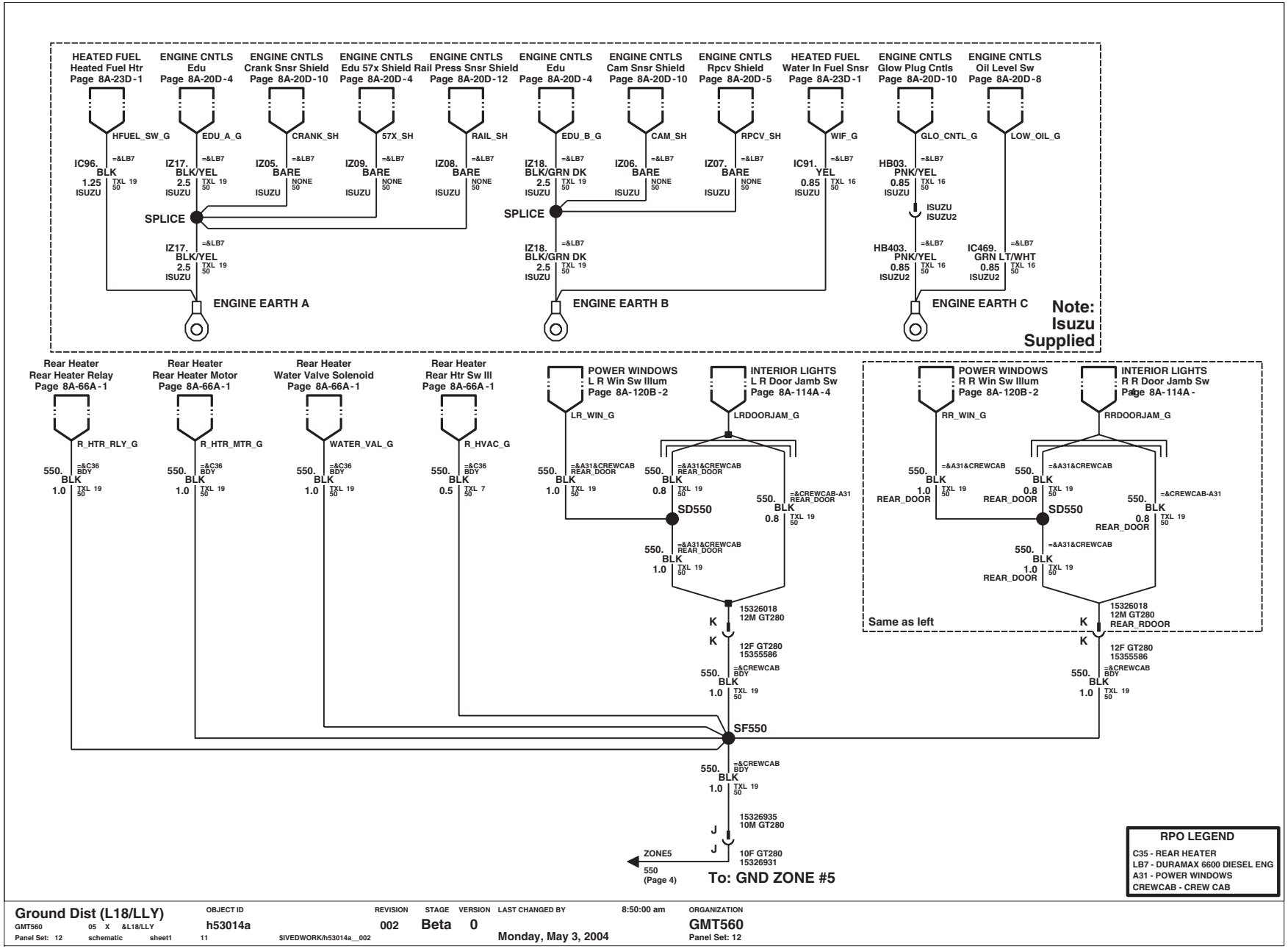
Ground Distribution — (L18) 8.1L-Gas/NAPT — (LLY) 6.6L-Diesel/Duramax



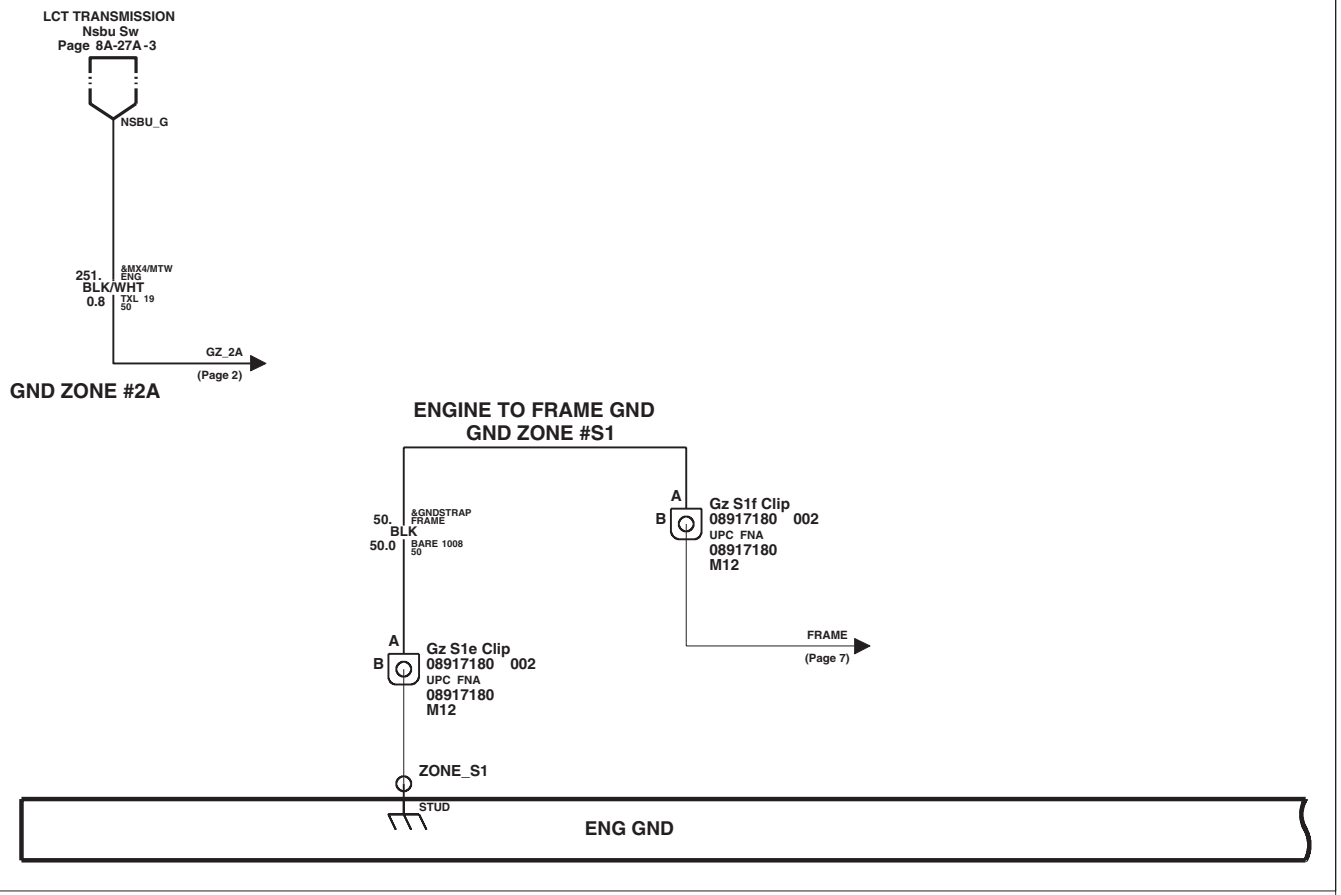
Ground Distribution — (L18) 8.1L-Gas/NAPT — (LLY) 6.6L-Diesel/Duramax



Ground Distribution — (L18) 8.1L-Gas/NAPT — (LLY) 6.6L-Diesel/Duramax

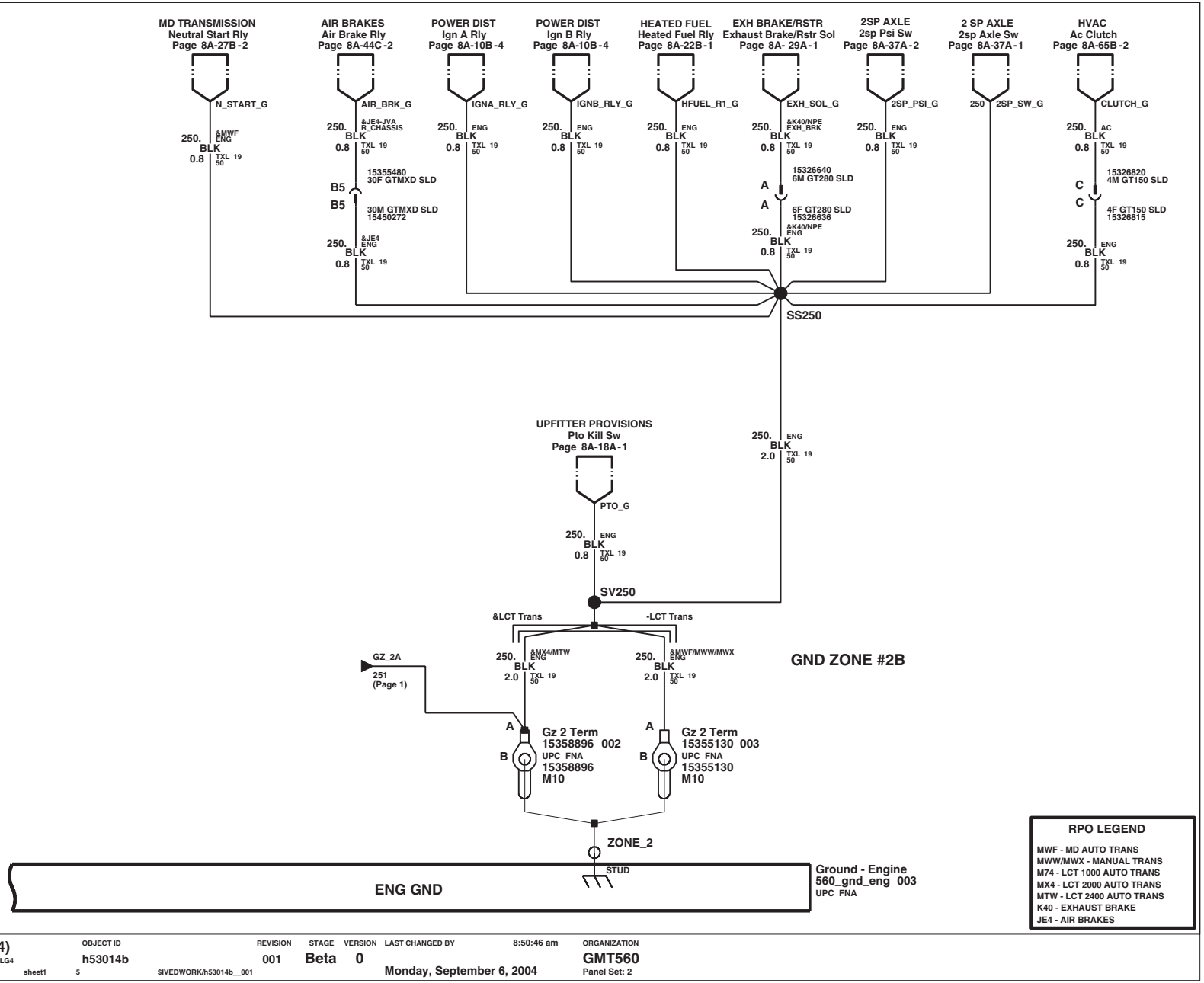


Ground Distribution — (LG4) 7.8L-Diesel/Duramax



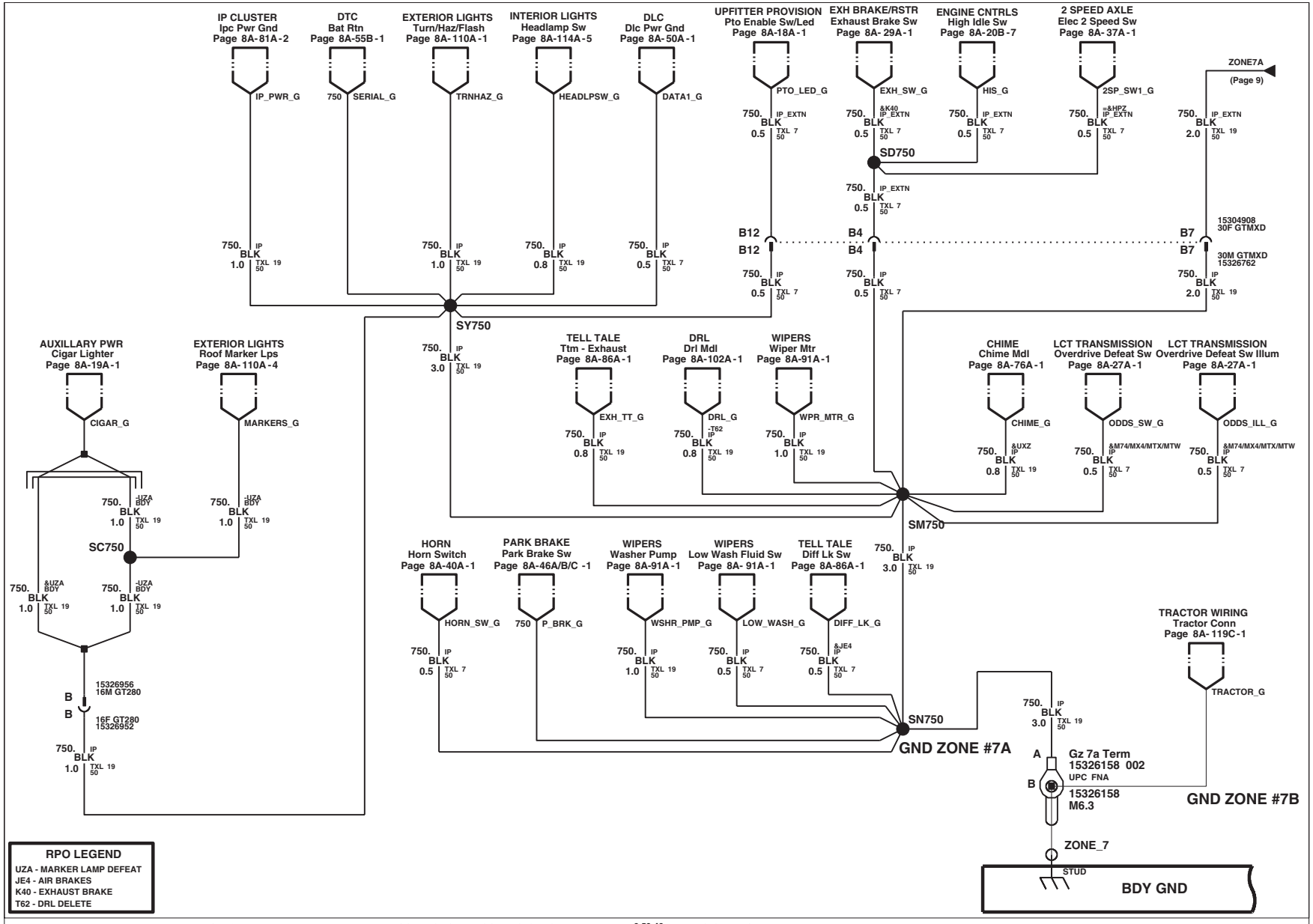
Ground Dist (LG4)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY	8:50:46 am	ORGANIZATION
GMT560 04i X &LG4	h53014b	001	Beta	0			GMT560
Panel Set: 1 schematic sheet1 5	$IVEDWORK/h53014b__001				Monday, September 6, 2004		Panel Set: 1

Ground Distribution — (LG4) 7.8L-Diesel/Duramax

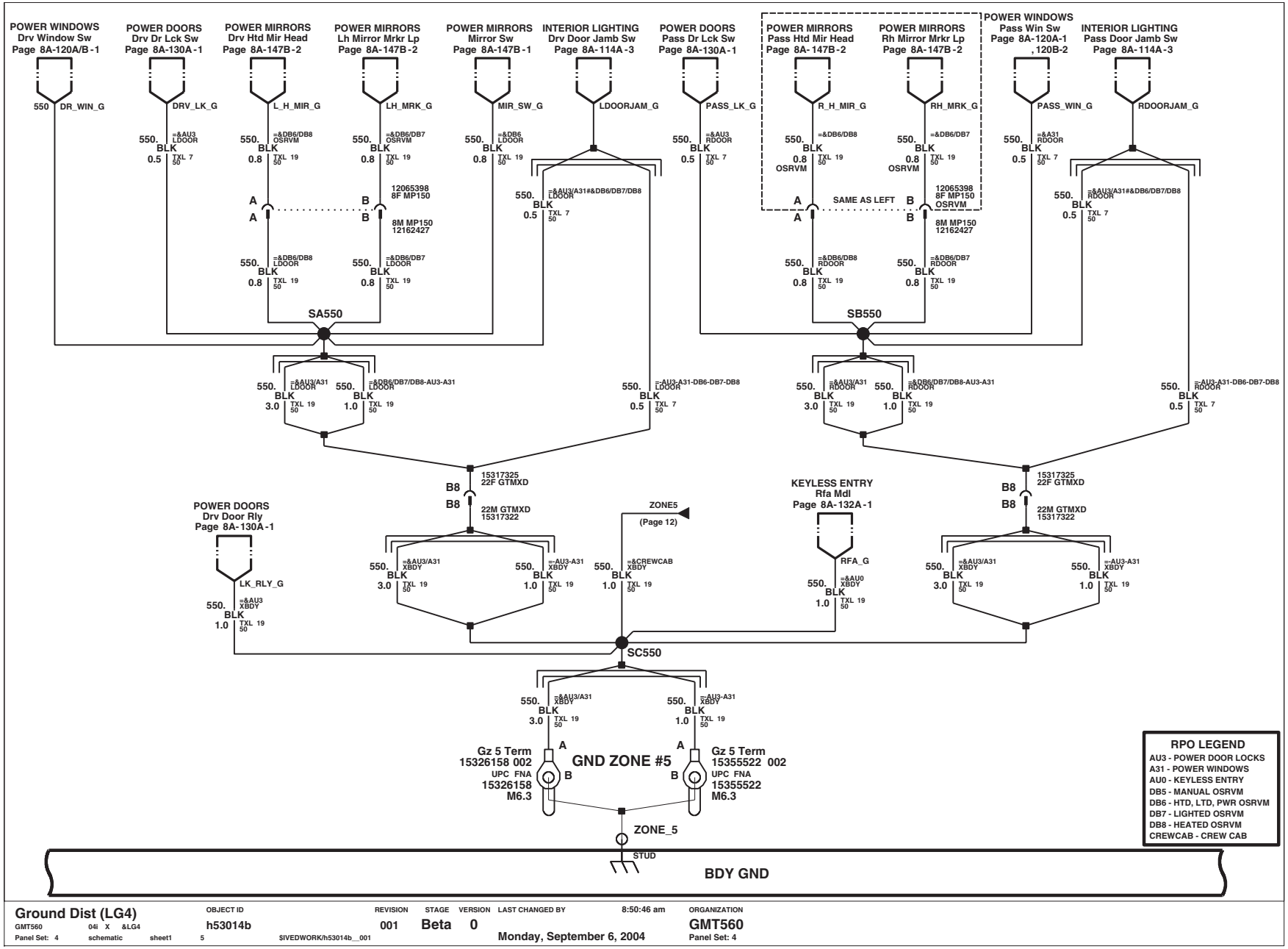


Ground Dist (LG4)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY		ORGANIZATION
GMT560 04i X &LG4	h53014b	001	Beta	0		8:50:46 am	GMT560
Panel Set: 2 schematic sheet1 5	$IVEDWORK/h53014b__001				Monday, September 6, 2004		Panel Set: 2

Ground Distribution — (LG4) 7.8L-Diesel/Duramax

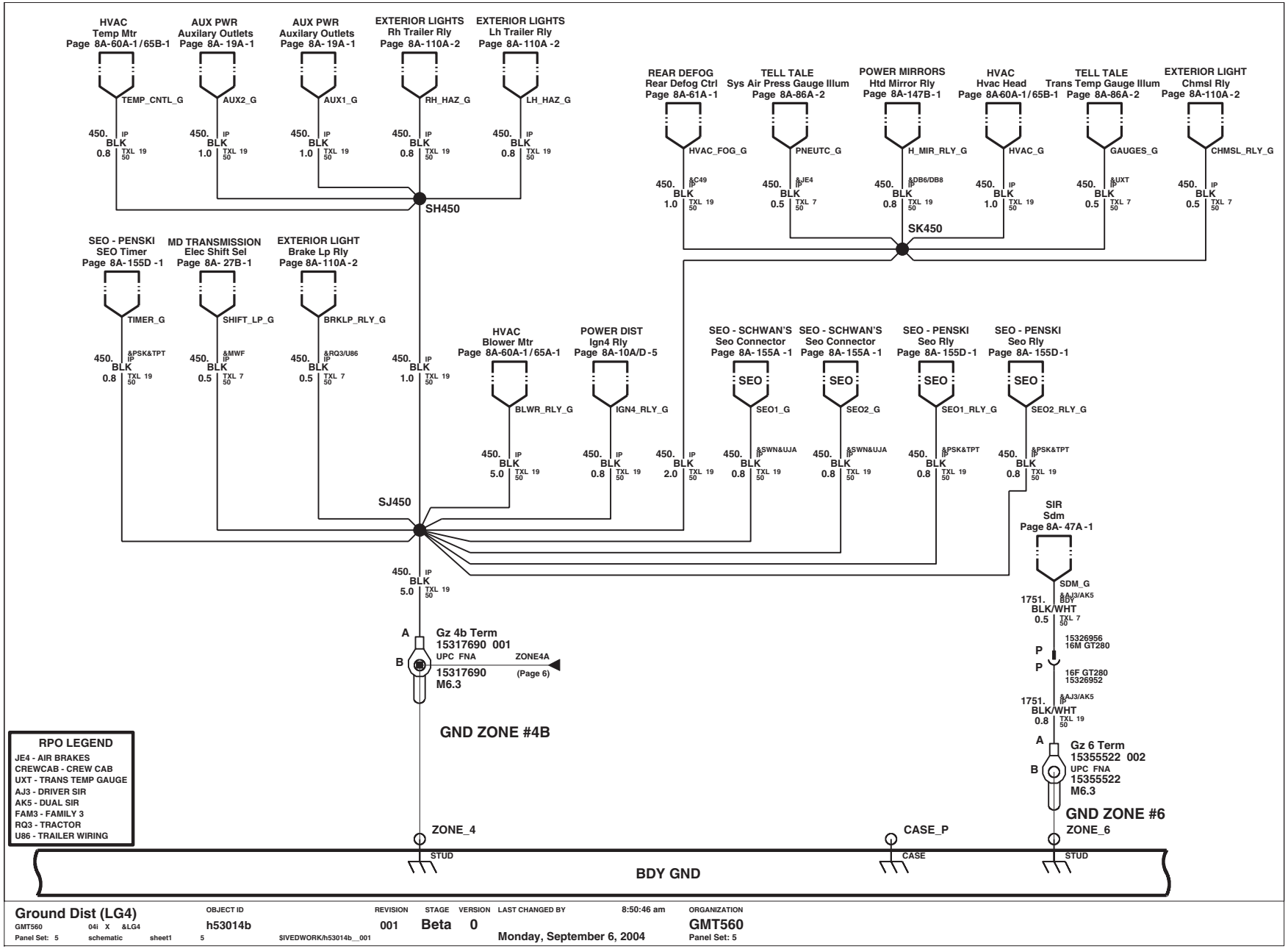


Ground Distribution — (LG4) 7.8L-Diesel/Duramax

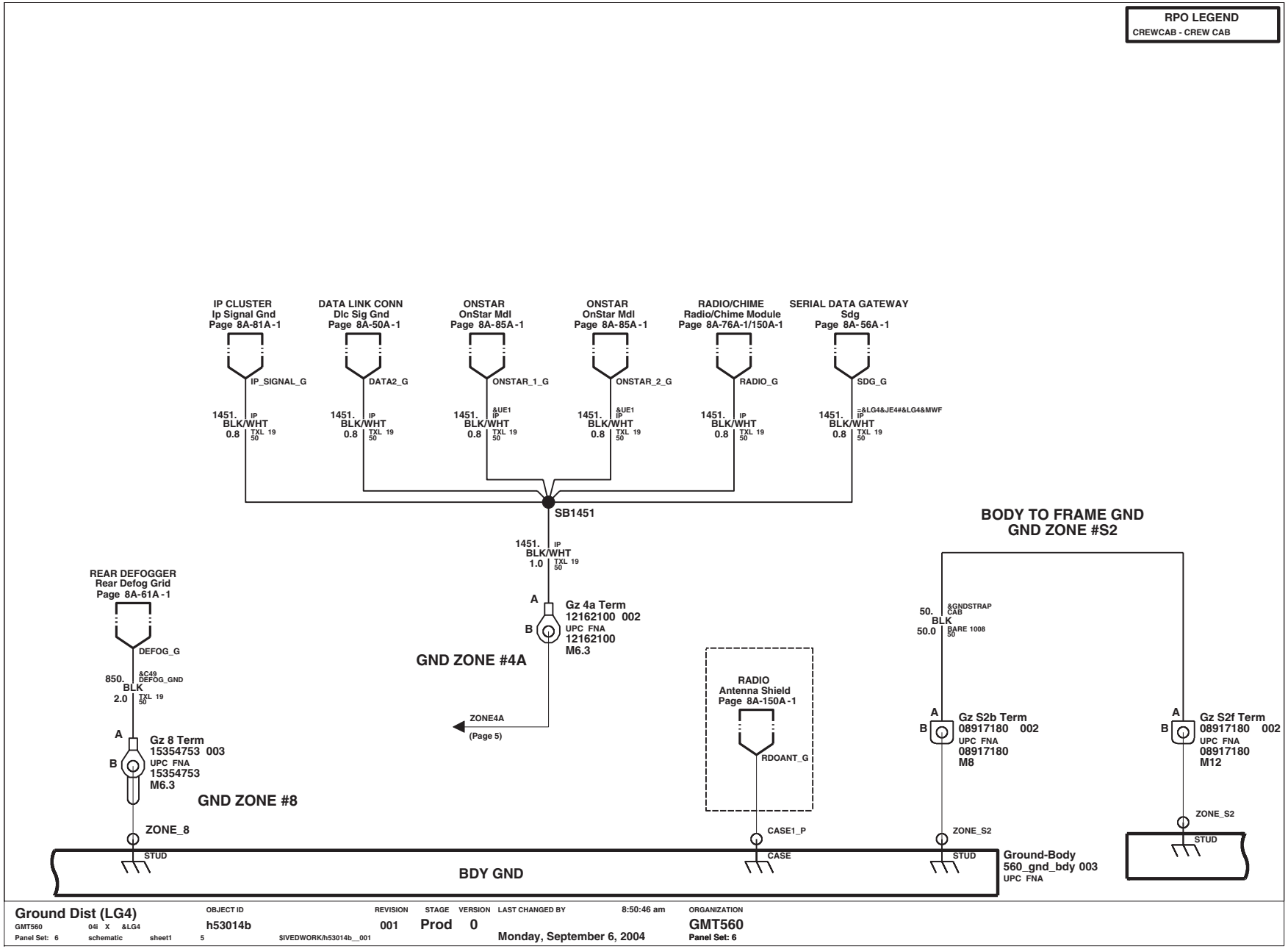


Ground Dist (LG4)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY		ORGANIZATION
GMT560 04i X &LG4	h53014b	001	Beta	0	8:50:46 am		GMT560
Panel Set: 4 schematic sheet1 5	$IVEDWORK/h53014b__001				Monday, September 6, 2004		Panel Set: 4

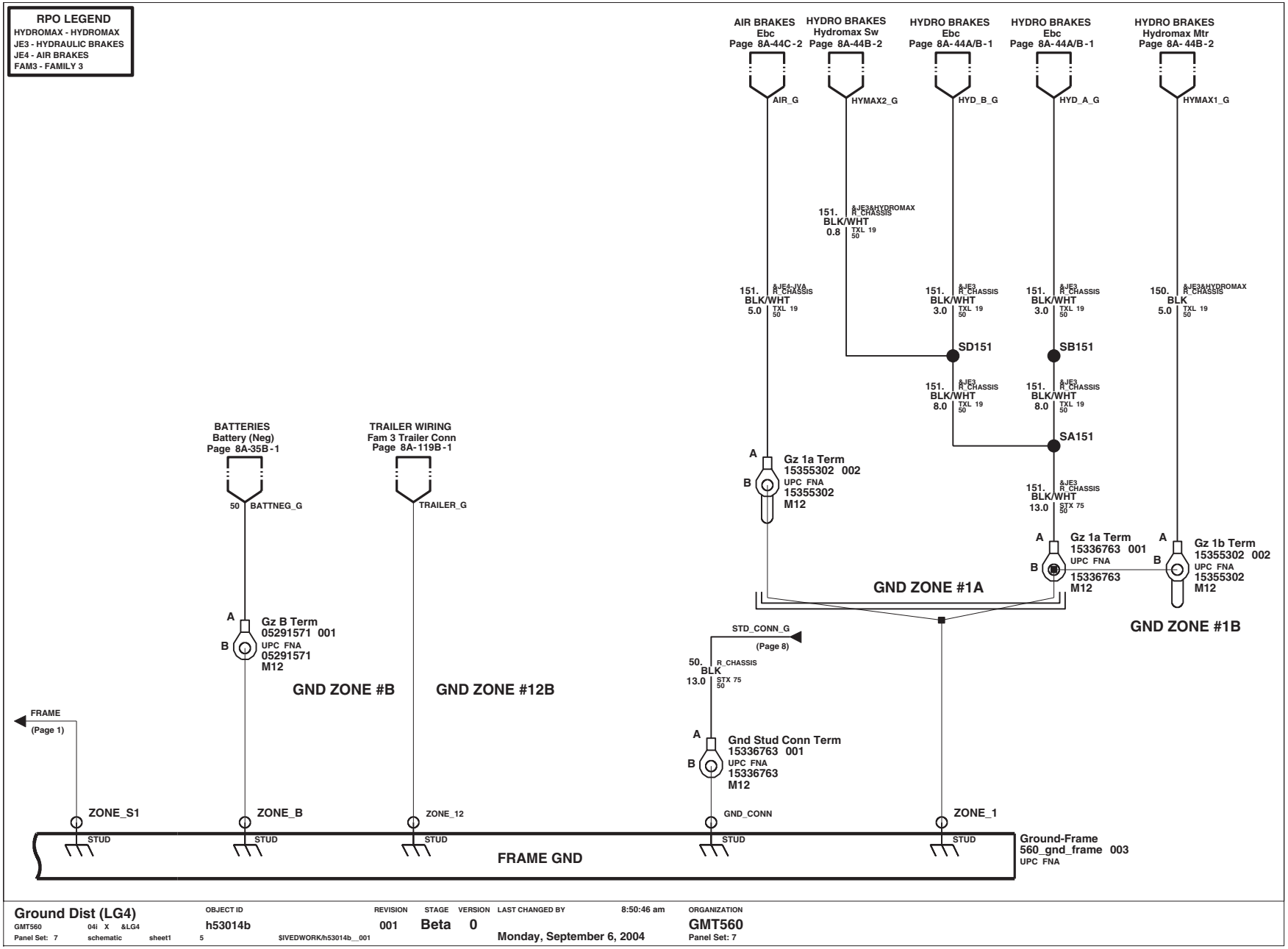
Ground Distribution — (LG4) 7.8L-Diesel/Duramax



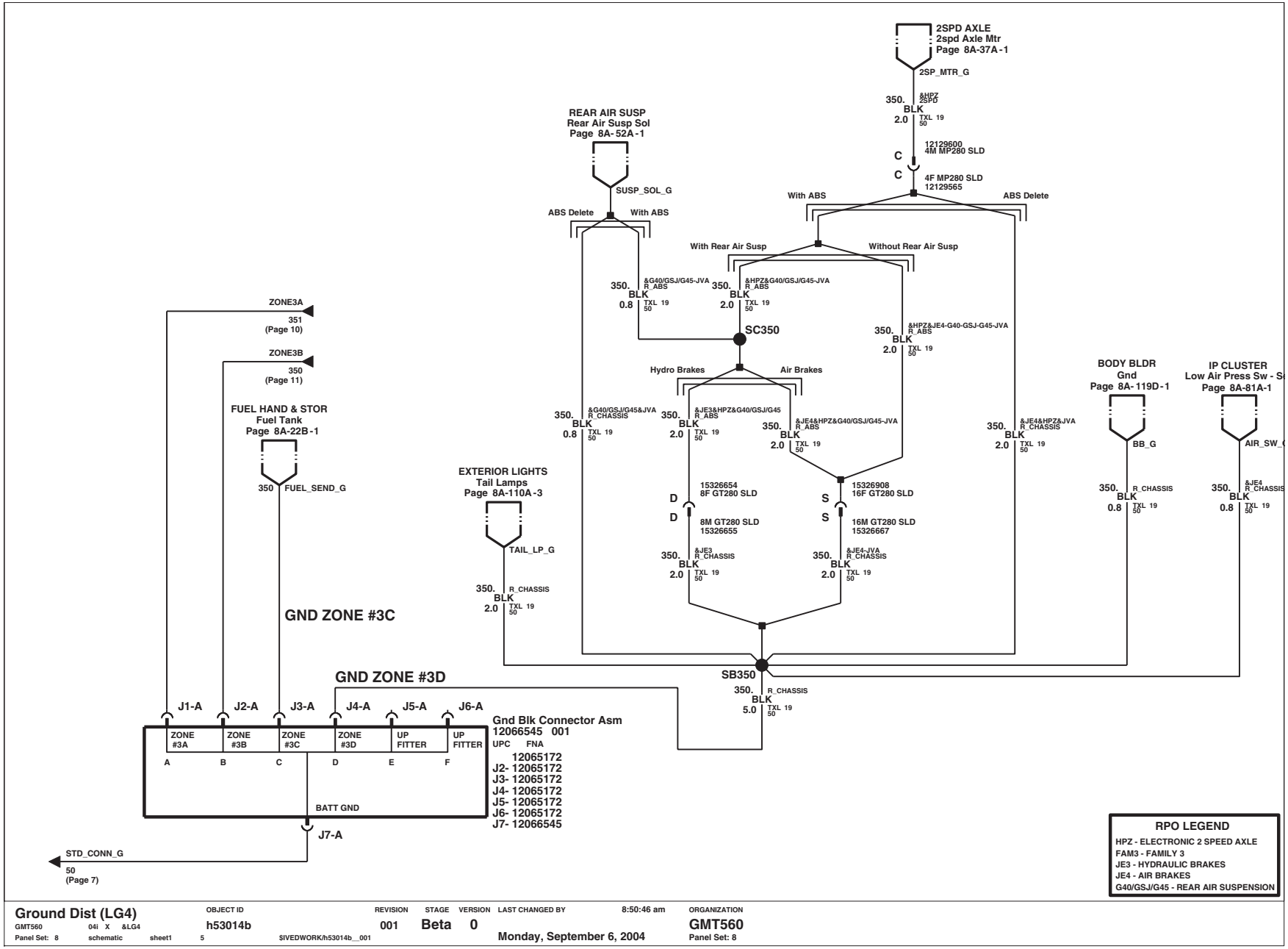
Ground Distribution — (LG4) 7.8L-Diesel/Duramax



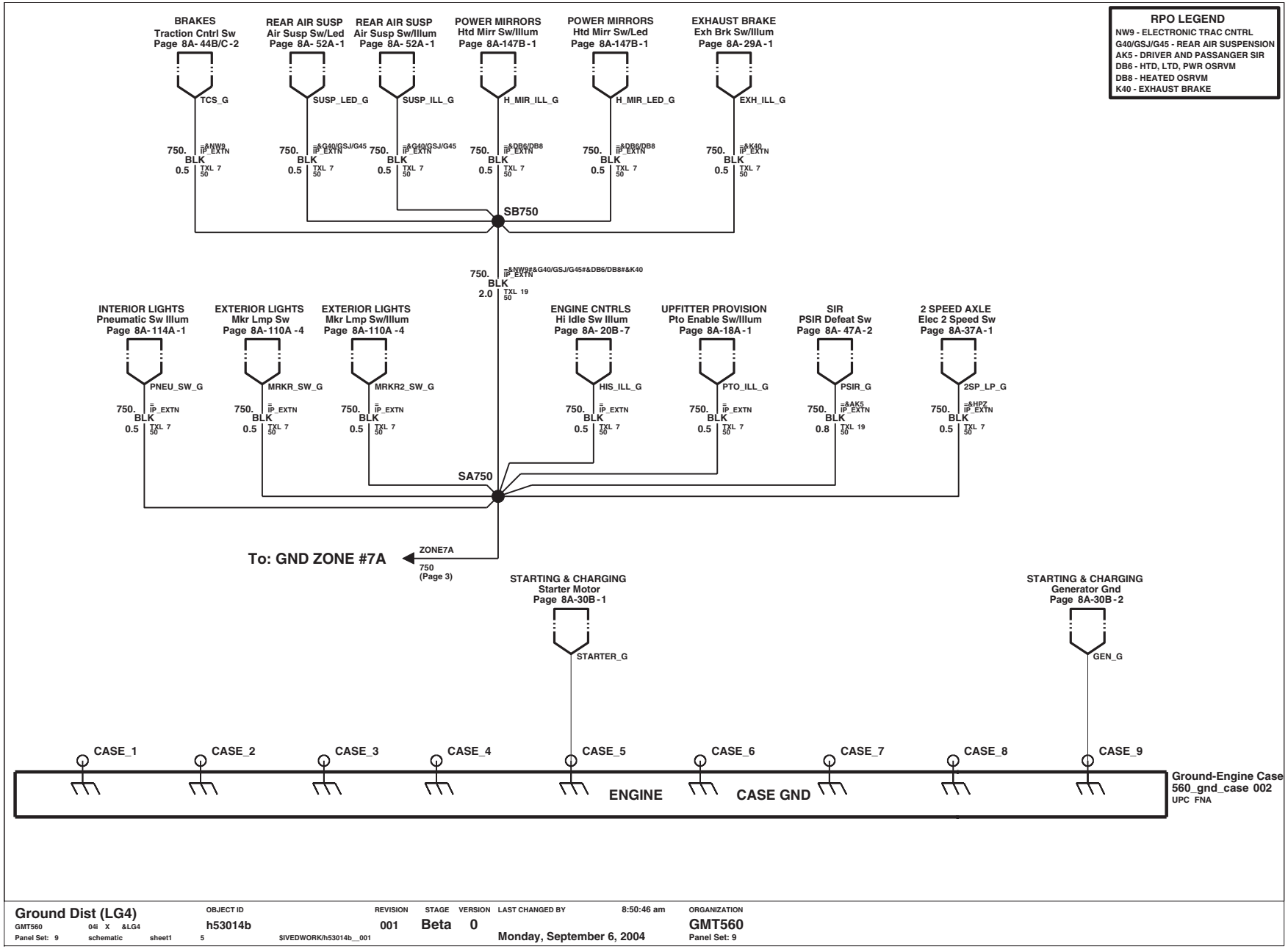
Ground Distribution — (LG4) 7.8L-Diesel/Duramax



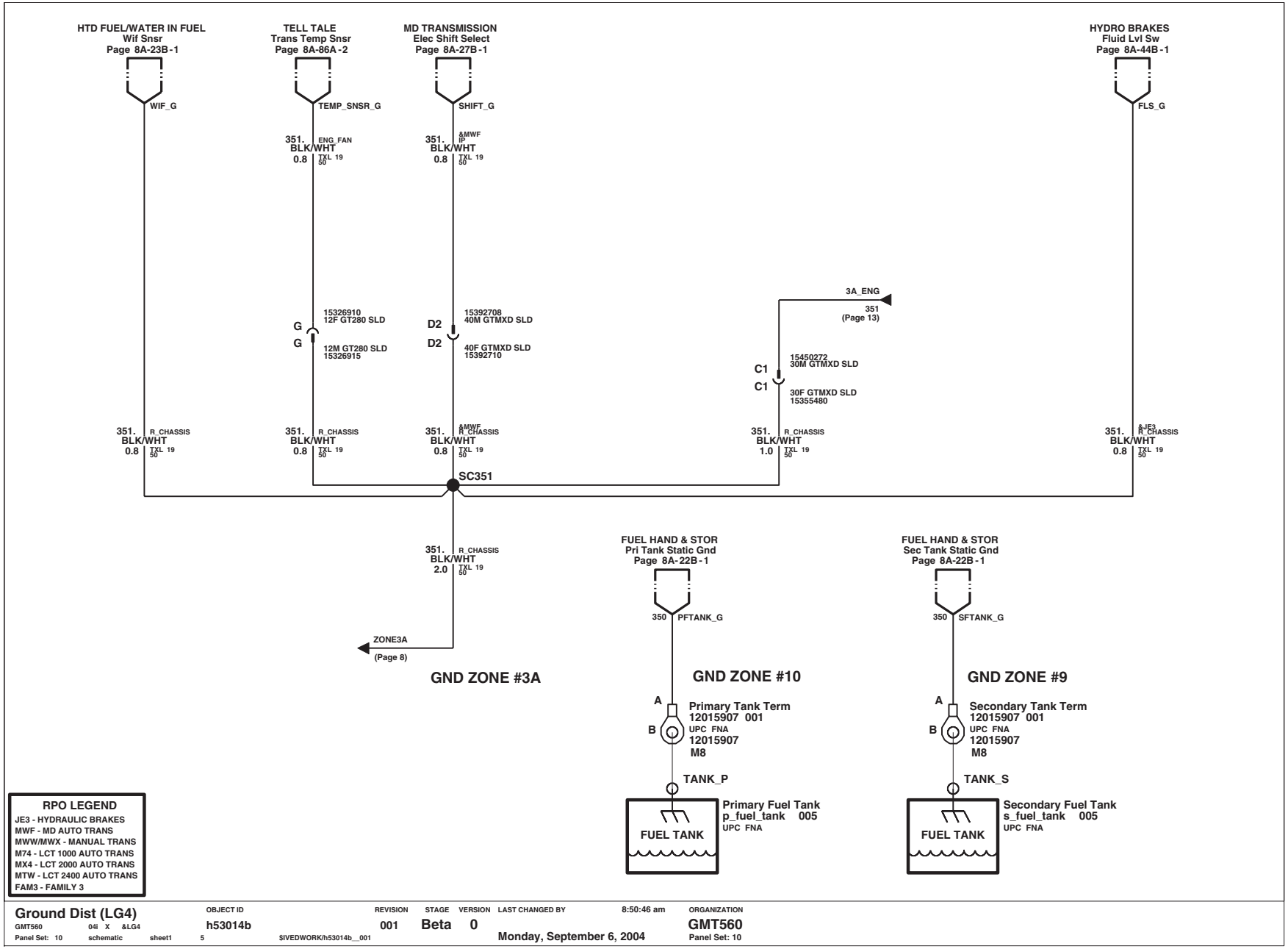
Ground Distribution — (LG4) 7.8L-Diesel/Duramax



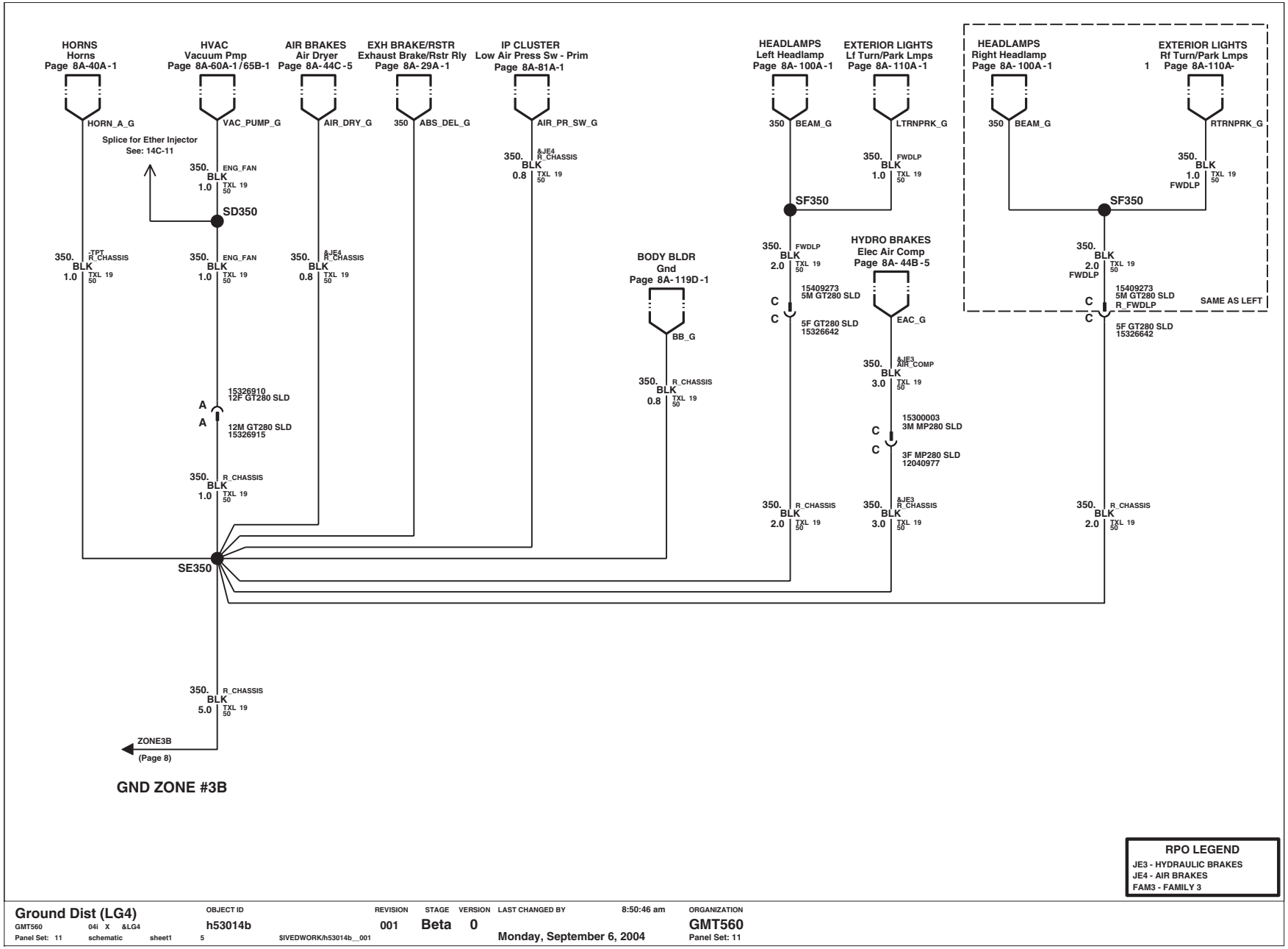
Ground Distribution — (LG4) 7.8L-Diesel/Duramax



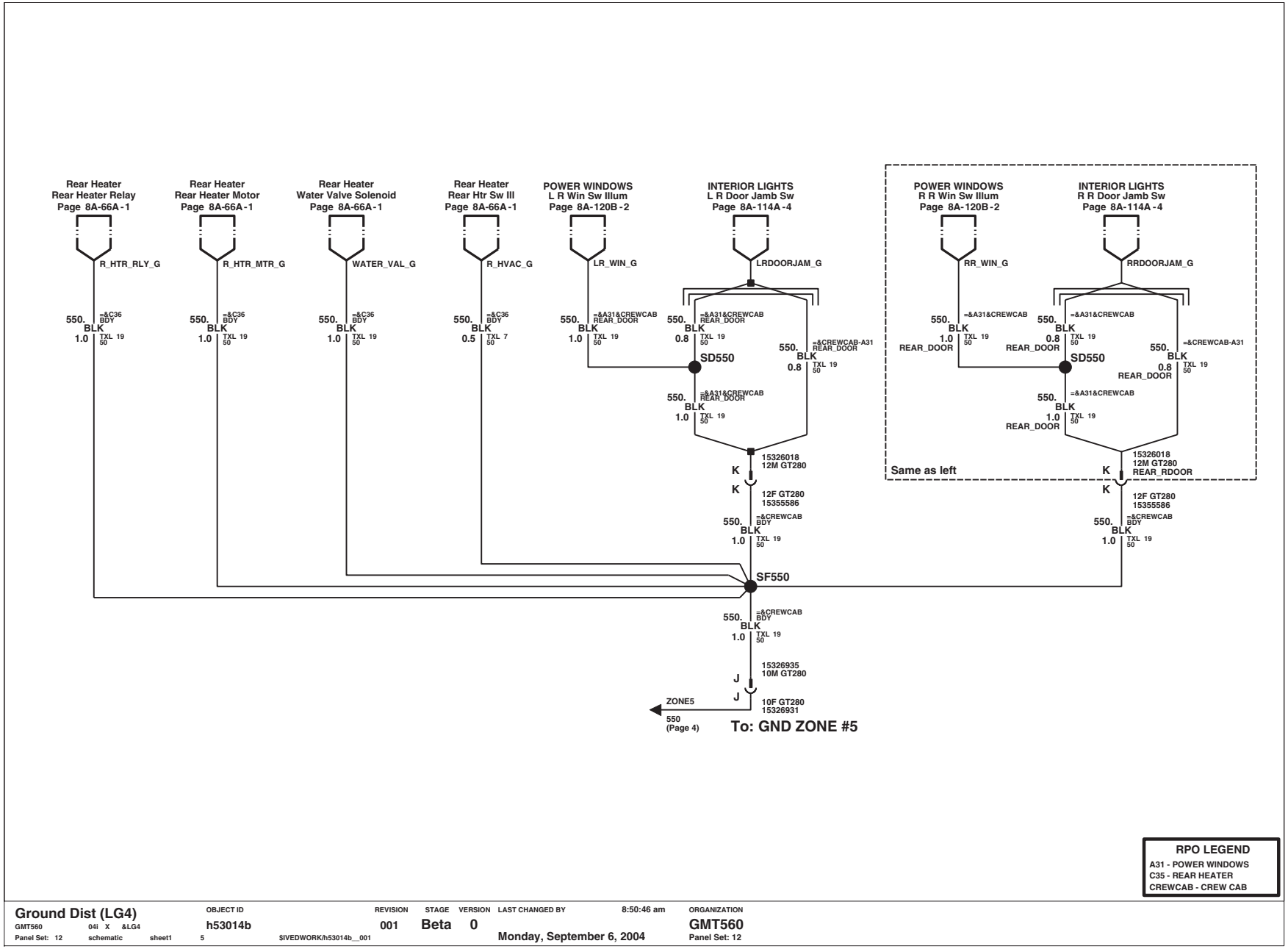
Ground Distribution — (LG4) 7.8L-Diesel/Duramax



Ground Distribution — (LG4) 7.8L-Diesel/Duramax



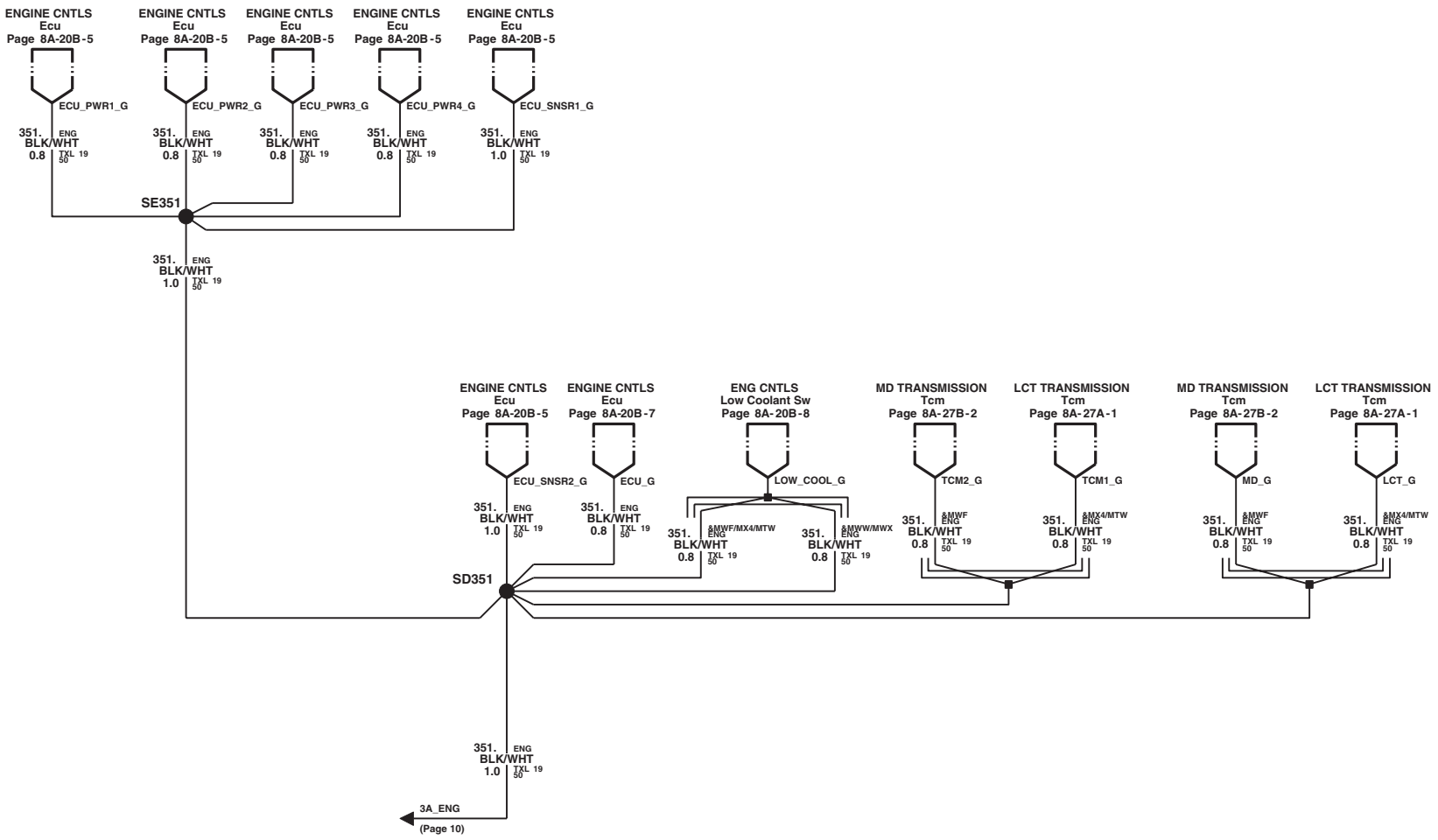
Ground Distribution — (LG4) 7.8L-Diesel/Duramax



Ground Dist (LG4)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY		ORGANIZATION
GMT560 04i X &LG4	h53014b	001	Beta	0		8:50:46 am	GMT560
Panel Set: 12 schematic sheet1 5	$IVEDWORK/h53014b__001				Monday, September 6, 2004		Panel Set: 12

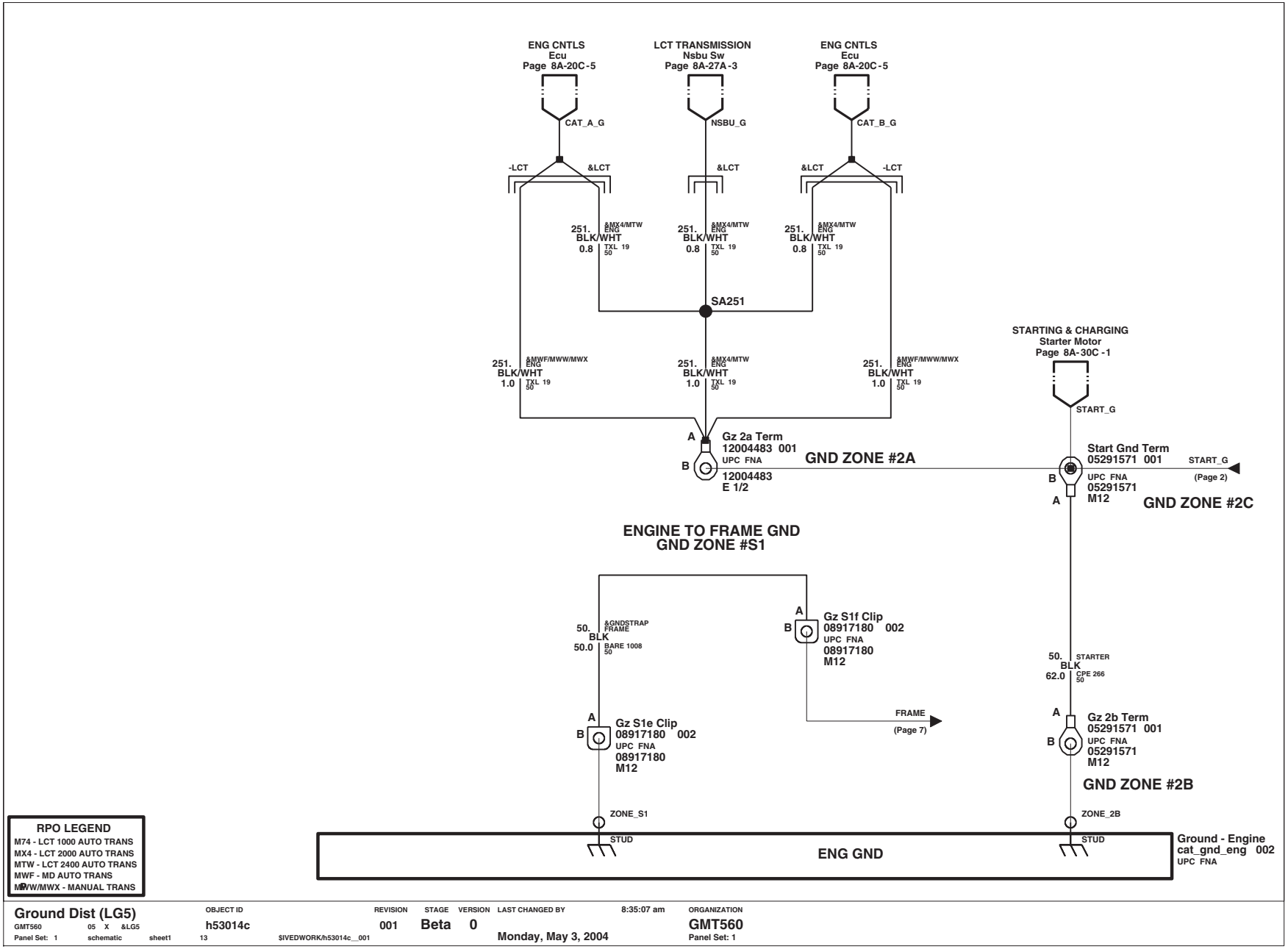
Ground Distribution — (LG4) 7.8L-Diesel/Duramax

04 560 000	TY	BETA - INITIAL CREATION	18SE01	001
04 560 1115	LR	REMOVE 2SPD AIR CKT.	08OC01	001
04 560 1136	JG	Pneumatic Switch Update	15NO01	001
04 560 1149	JG	TRANS RPO UPDATE	13DE01	001
03 560 1151	LR	REMOVE HYD_BST JMPR	14DE01	001
04 560 1106	JG	Update 900 ckts	08FE02	001
04 560 000	JG	Obsolete Connector Update	13FE02	001
04 560 1228	JG	Delete R_ABS Harness with ABS Delete	02MY02	001

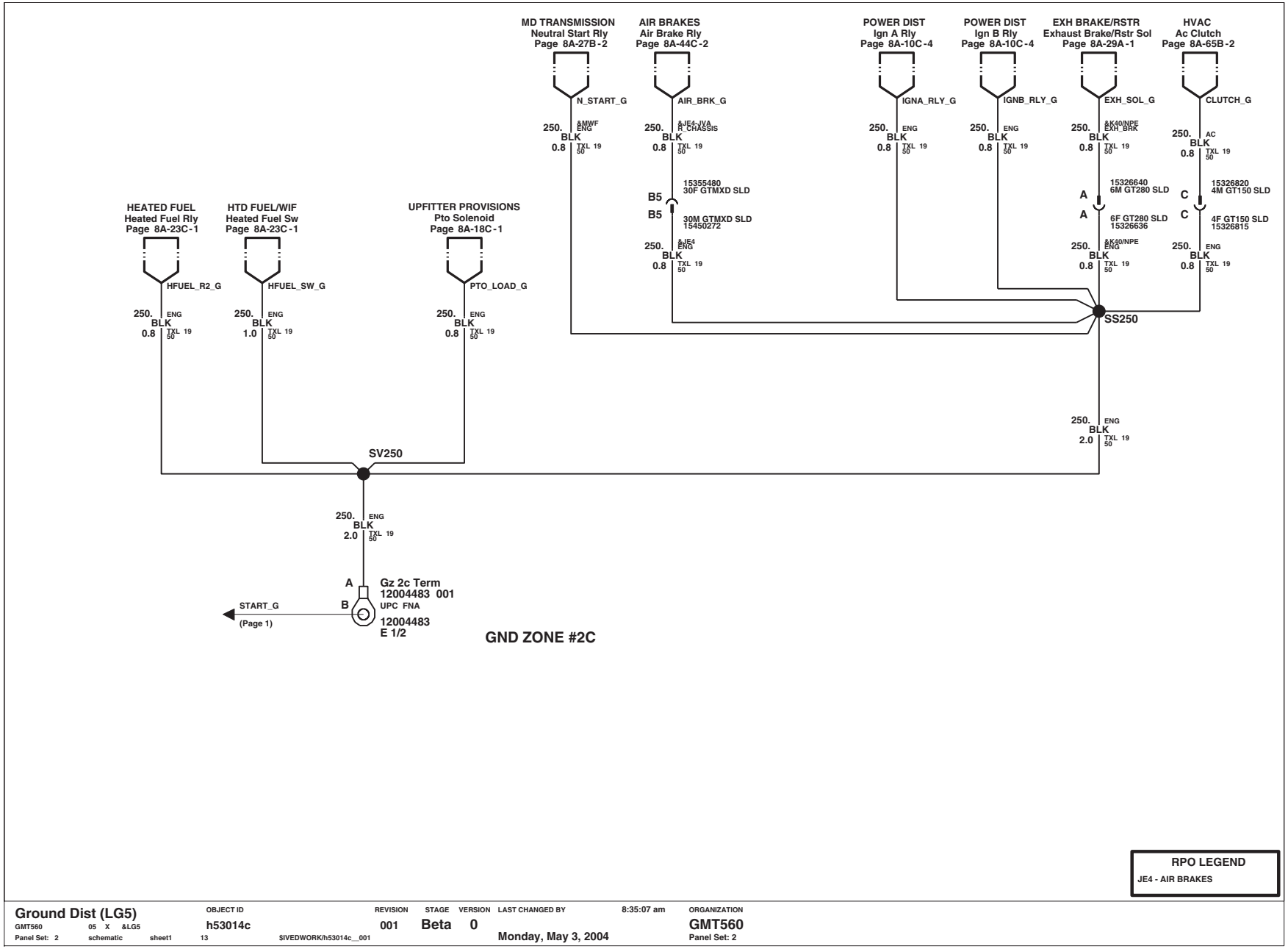


Ground Dist (LG4)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY	8:50:46 am	ORGANIZATION
GMT560 04i X &LG4	h53014b	001	Beta	0			GMT560
Panel Set: 13 schematic sheet1 5	$IVEDWORK/h53014b__001				Monday, September 6, 2004		Panel Set: 13

Ground Distribution — (LG5) 7.2L-Diesel/CAT

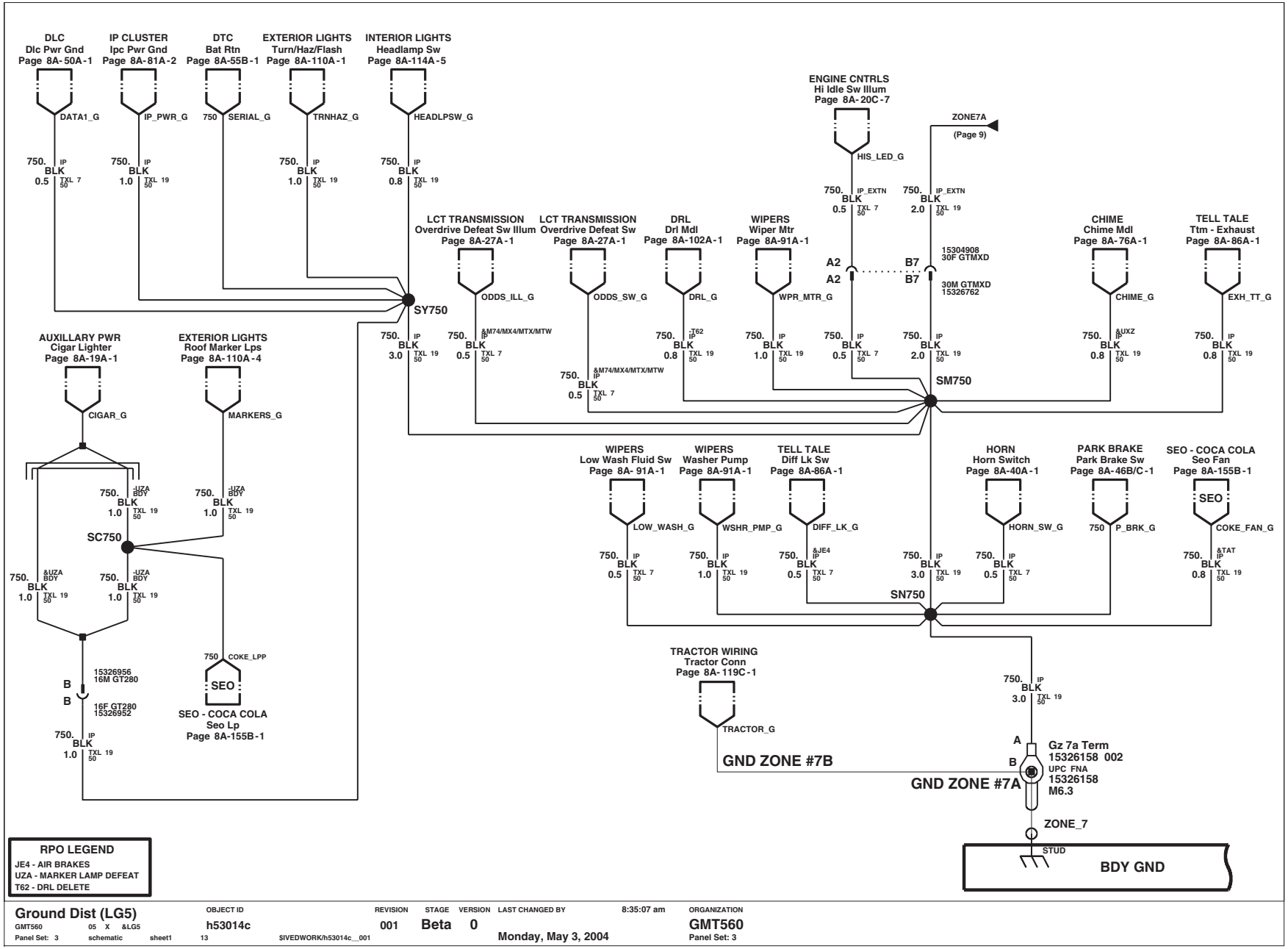


Ground Distribution — (LG5) 7.2L-Diesel/CAT

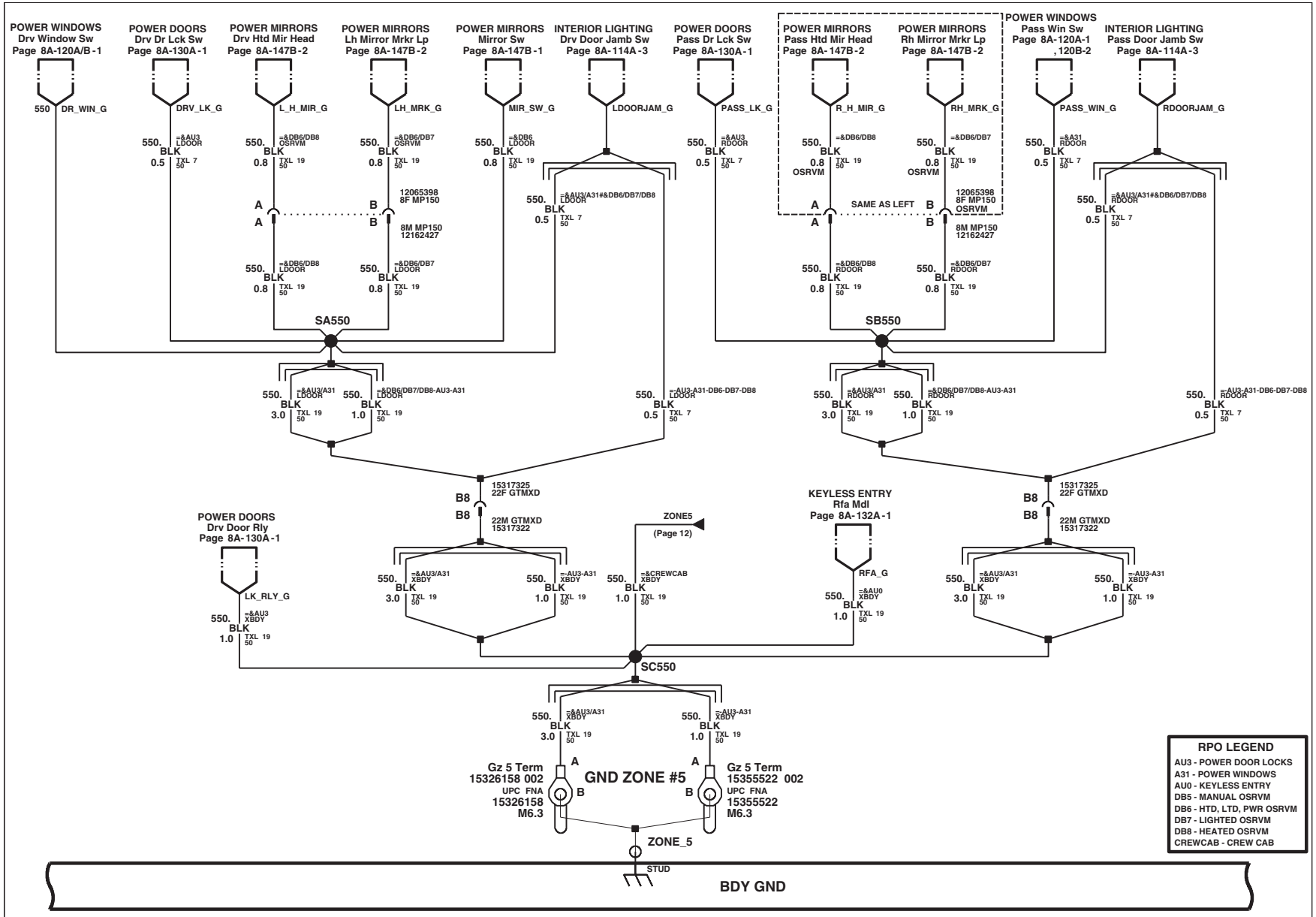


Ground Dist (LG5)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY		ORGANIZATION
GMT560 05 X &LG5	h53014c	001	Beta	0		8:35:07 am	GMT560
Panel Set: 2 schematic sheet1 13	$IVEDWORK/h53014c__001				Monday, May 3, 2004		Panel Set: 2

Ground Distribution — (LG5) 7.2L-Diesel/CAT

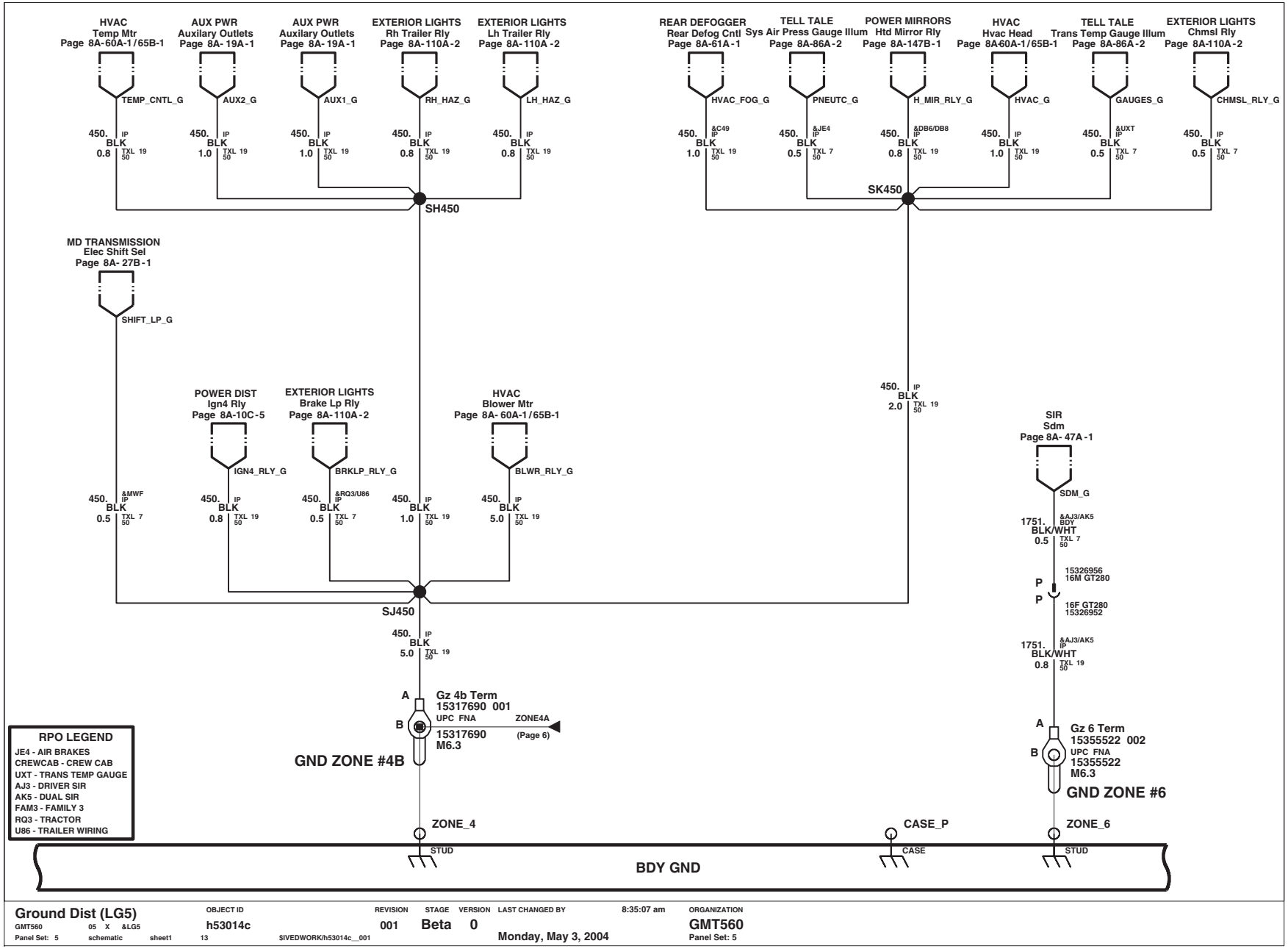


Ground Distribution — (LG5) 7.2L-Diesel/CAT

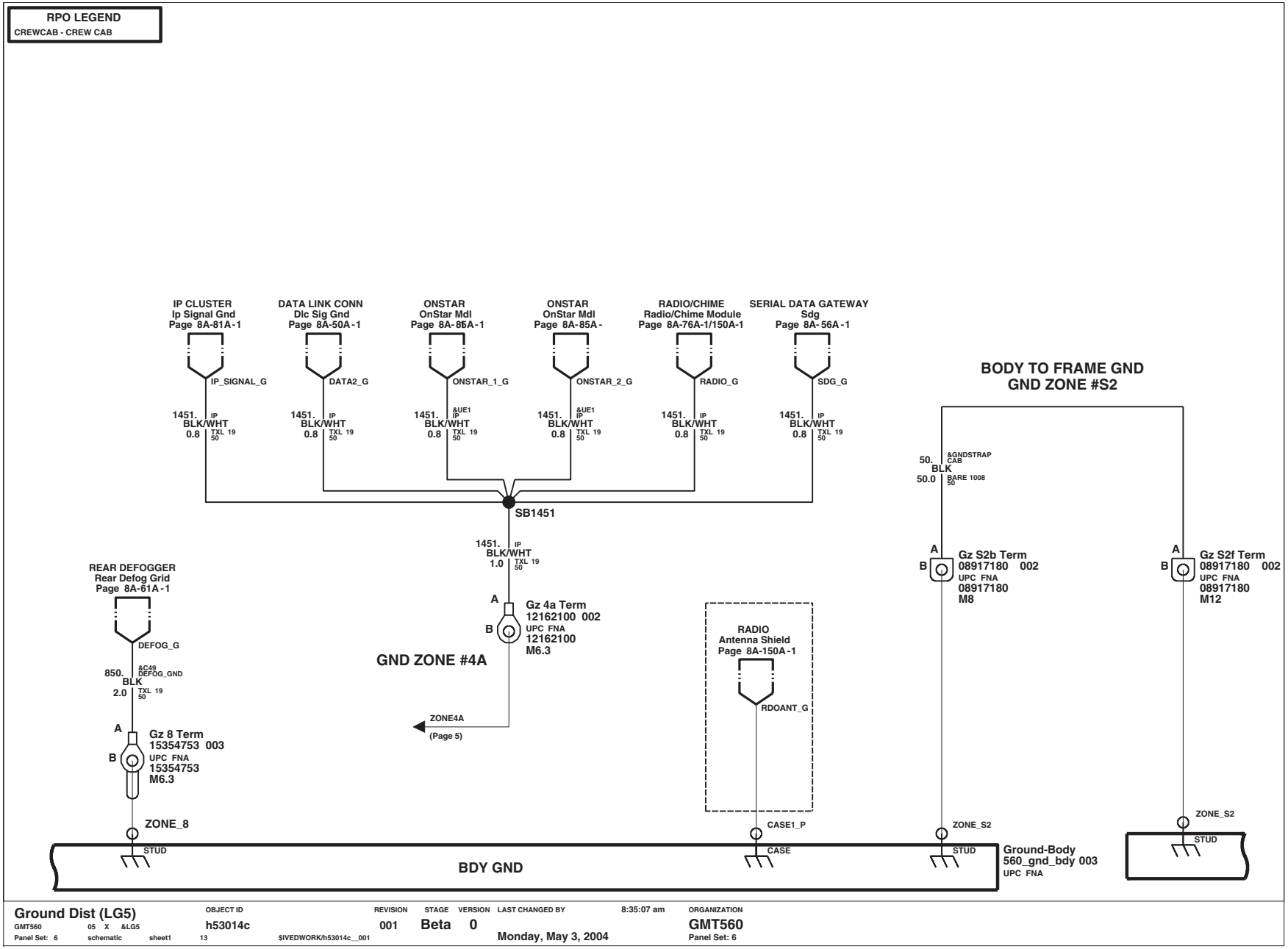


Ground Dist (LG5)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY		ORGANIZATION
GMT560 05 X &LG5	h53014c	001	Beta	0		8:35:07 am	GMT560
Panel Set: 4 schematic sheet1 13	$IVEDWORK/h53014c__001				Monday, May 3, 2004		Panel Set: 4

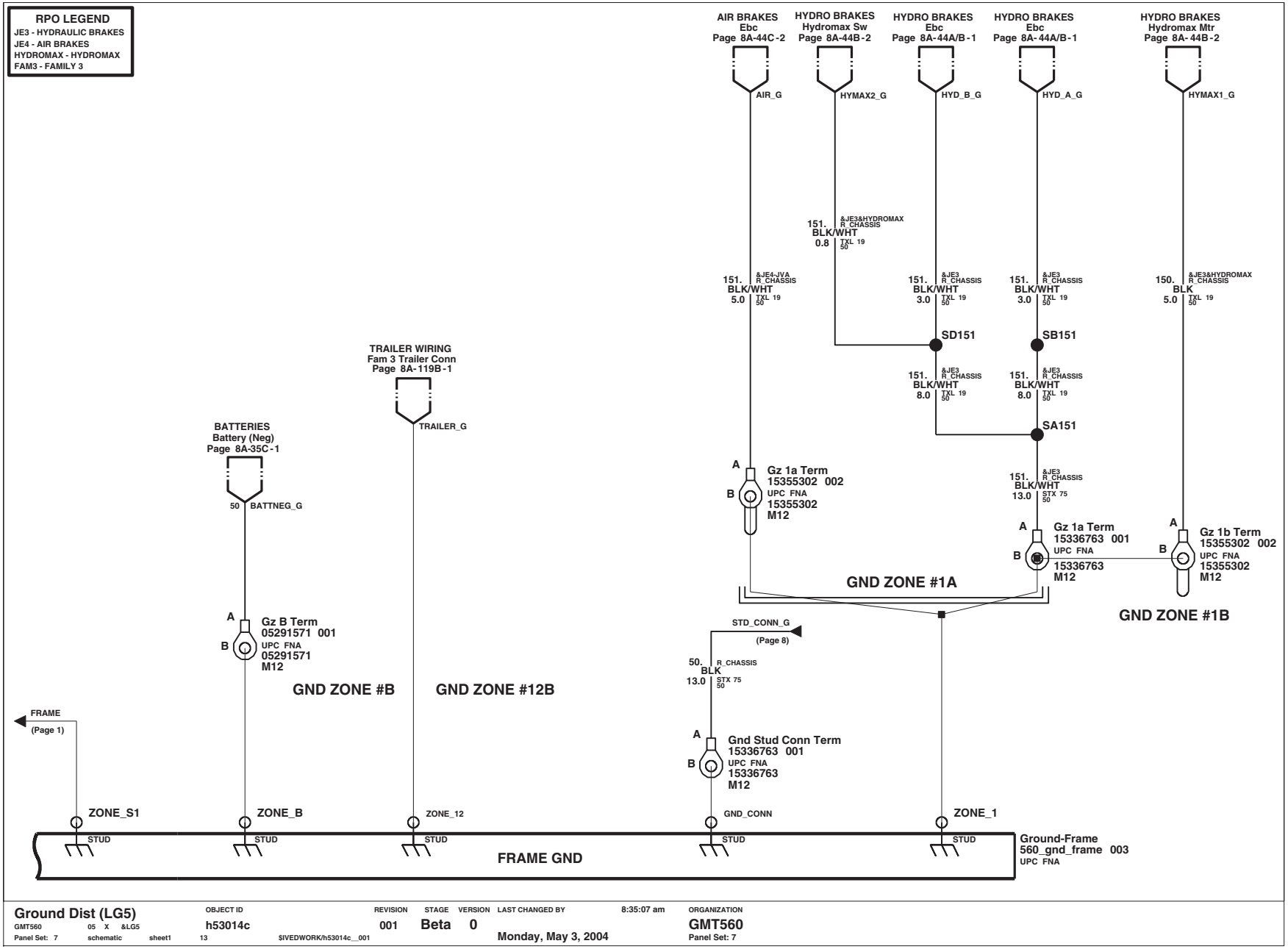
Ground Distribution — (LG5) 7.2L-Diesel/CAT



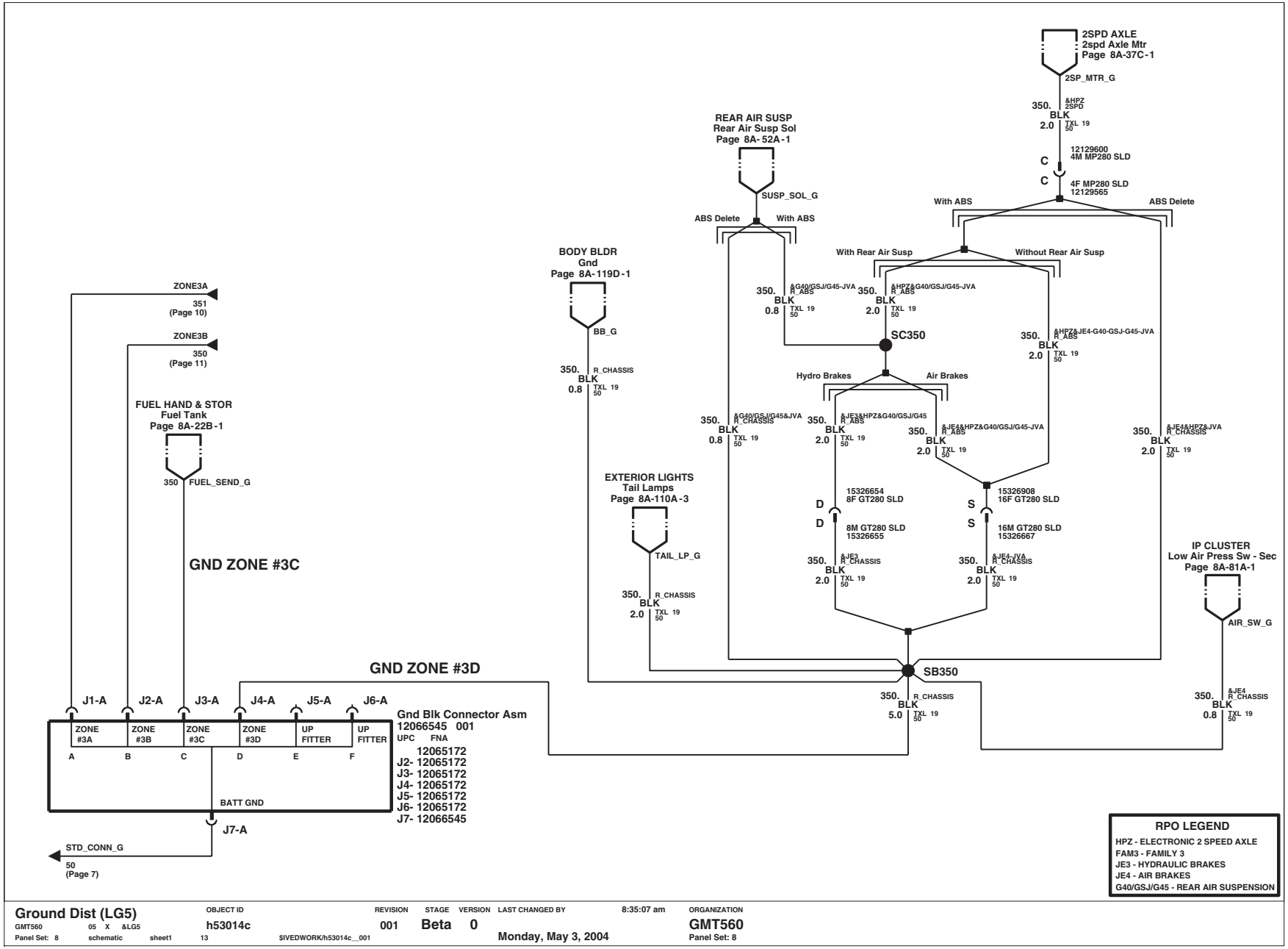
Ground Distribution — (LG5) 7.2L-Diesel/CAT



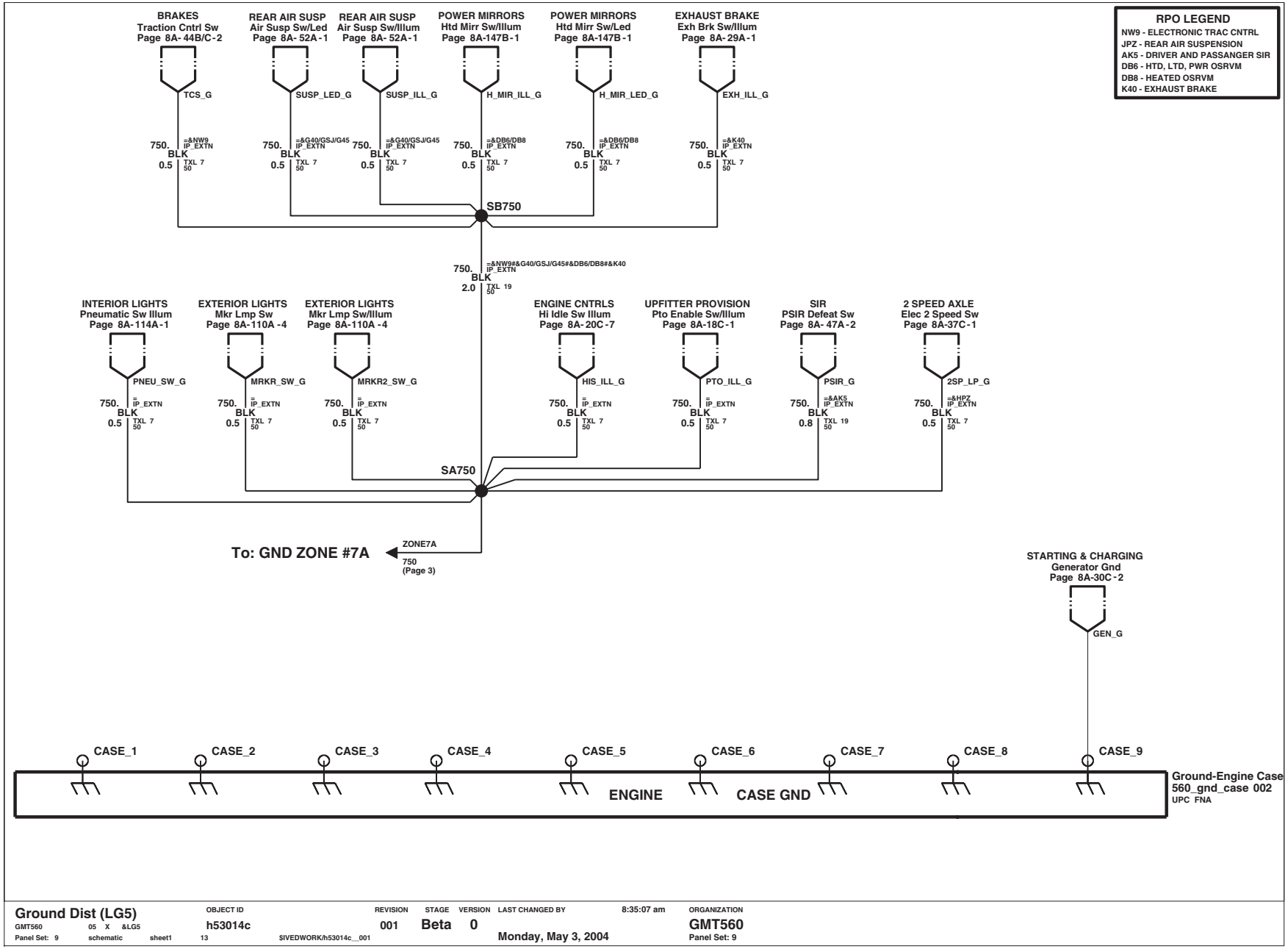
Ground Distribution — (LG5) 7.2L-Diesel/CAT



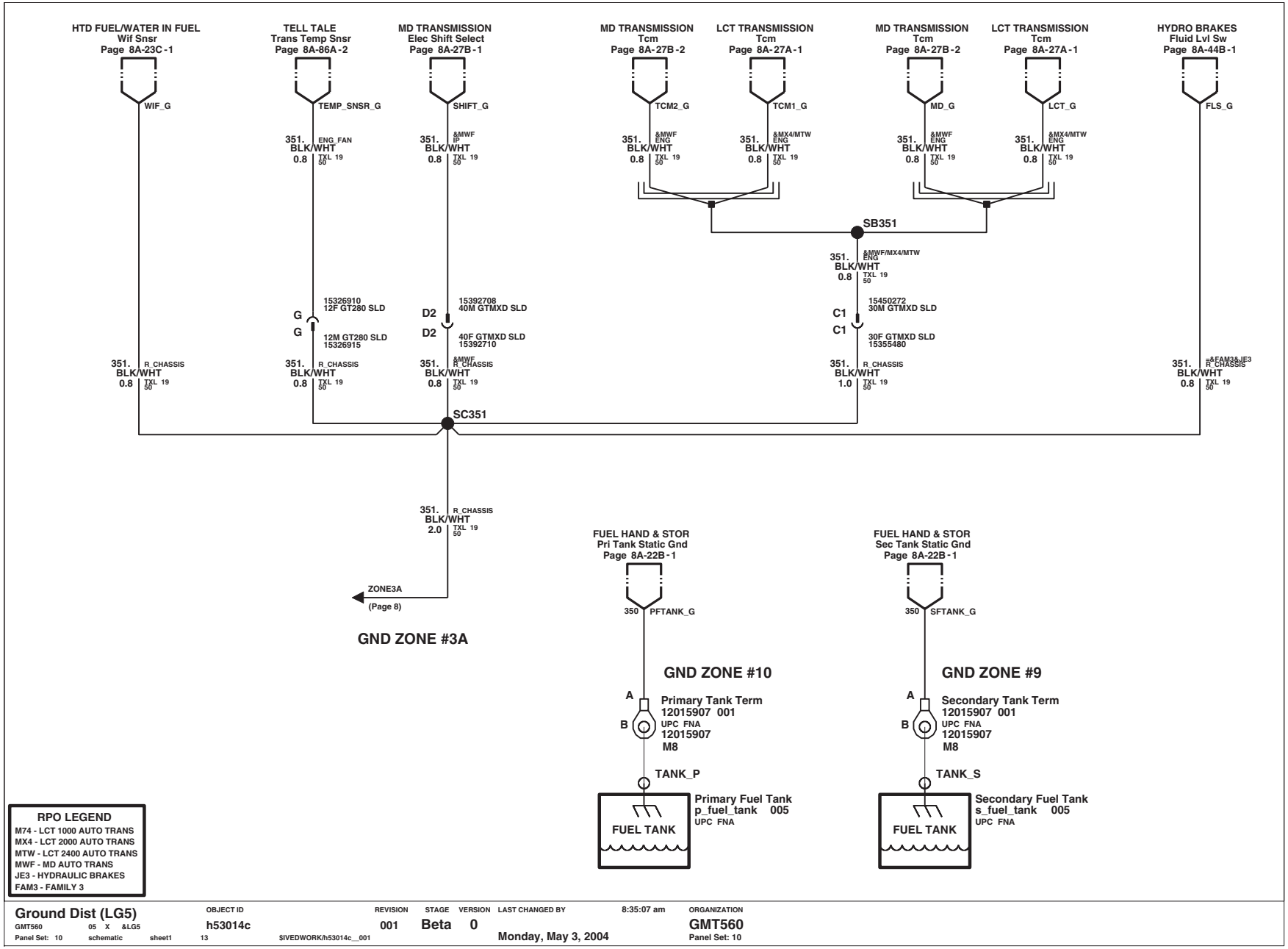
Ground Distribution — (LG5) 7.2L-Diesel/CAT



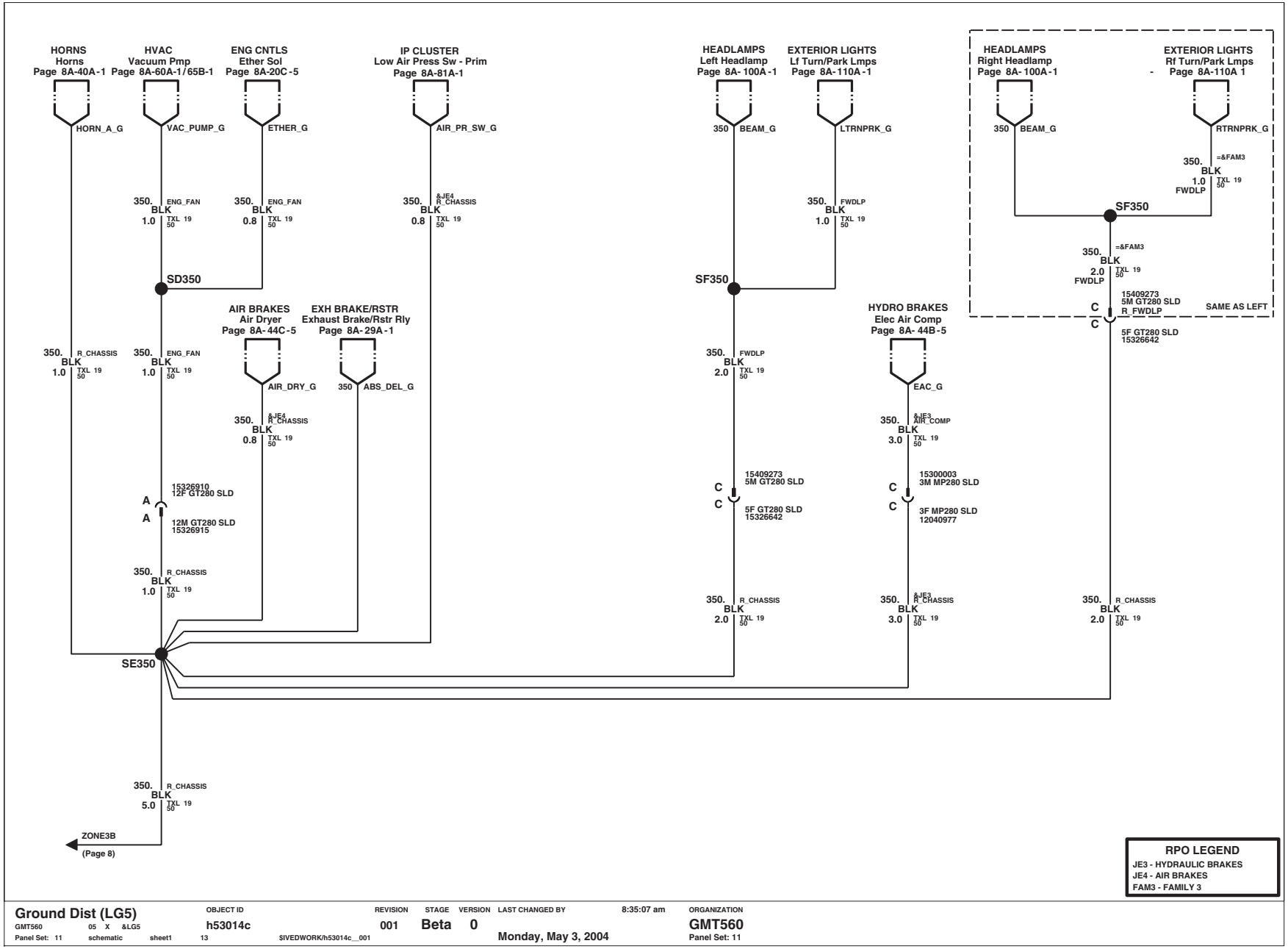
Ground Distribution — (LG5) 7.2L-Diesel/CAT



Ground Distribution — (LG5) 7.2L-Diesel/CAT



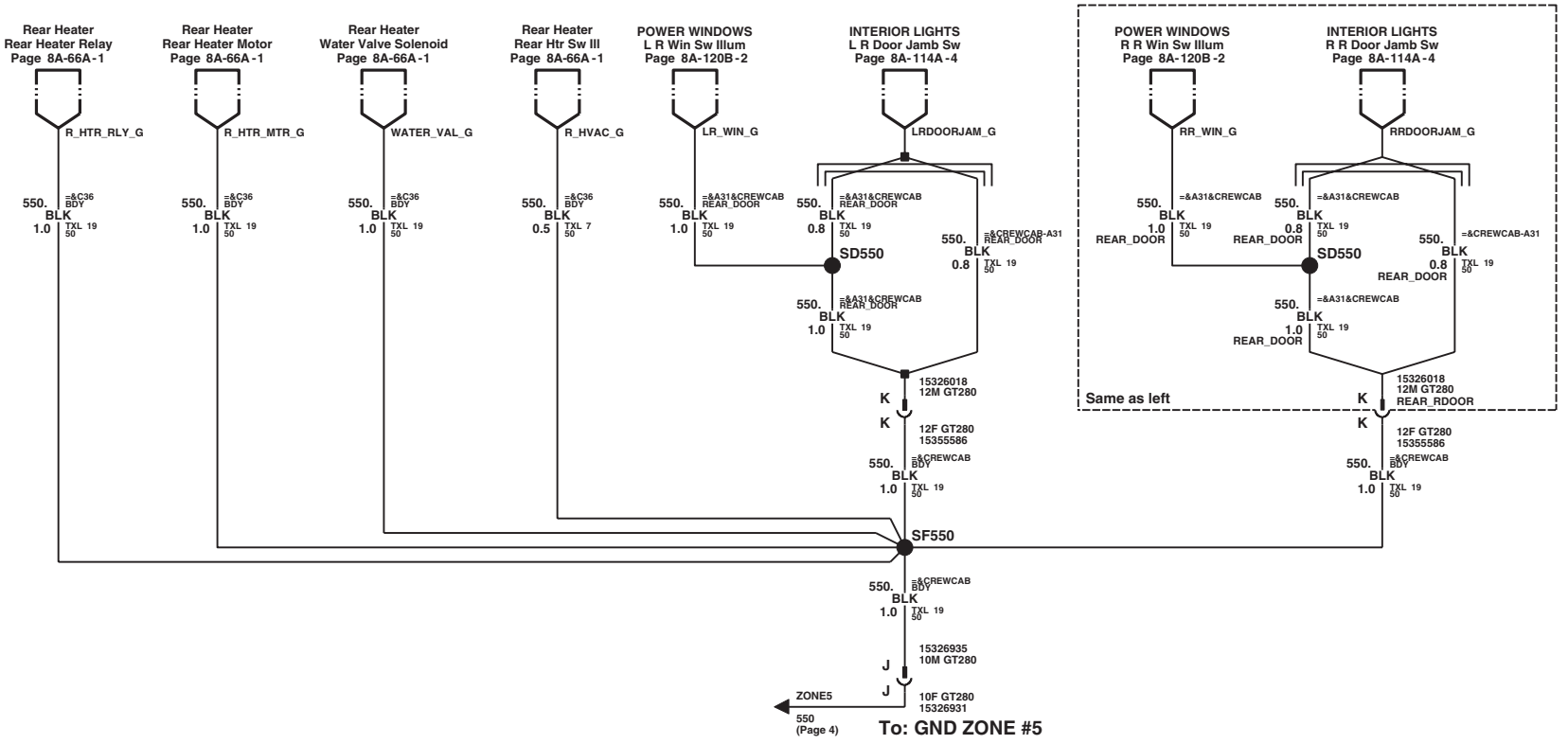
Ground Distribution — (LG5) 7.2L-Diesel/CAT



Ground Dist (LG5)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY		ORGANIZATION
GMT560 05 X &LG5	h53014c	001	Beta	0		8:35:07 am	GMT560
Panel Set: 11 schematic sheet1 13	$IVEDWORK/h53014c__001				Monday, May 3, 2004		Panel Set: 11

Ground Distribution — (LG5) 7.2L-Diesel/CAT

04	560 000	TY	BETA - INITIAL CREATION	18SE01	001
04	560 1115	LR	REMOVE 2SPD AIR CKT.	08OC01	001
04	560 1136	JG	Pneumatic Switch Update	15NO01	001
04	560 1149	JG	TRANS RPO UPDATE	13DE01	001
03	560 1151	LR	REMOVE HYD_BST_JMPR	14DE01	001
04	560 1106	JG	Update 900 ckts	08FE02	001
04	560 000	JG	Obsolete Connector Update	13FE02	001
03	560 1207	JG	SEO - Coca Cola	19MR02	001
04	560 1228	JG	Delete R_ABS Harness with ABS Delete	02MY02	001

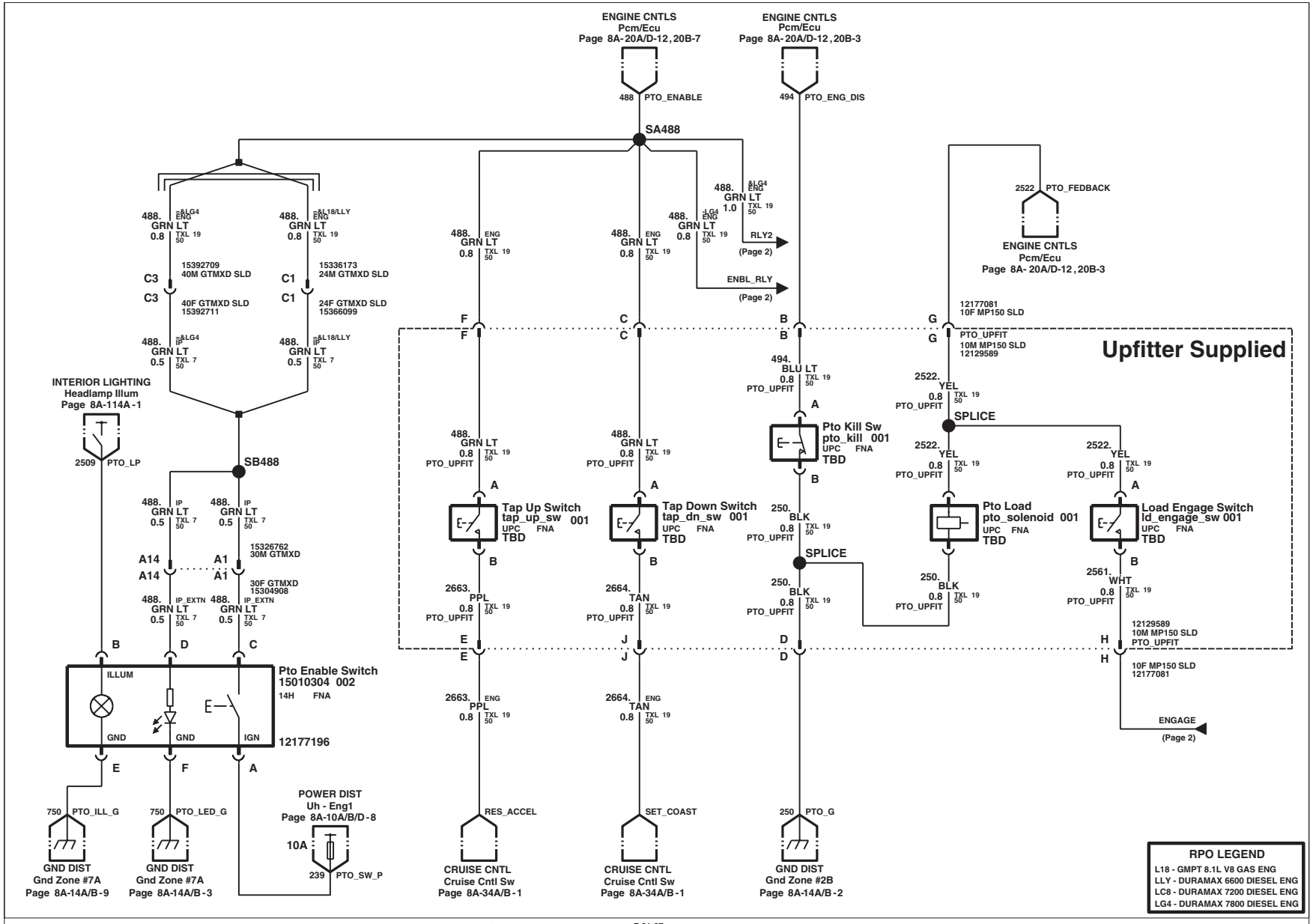


RPO LEGEND

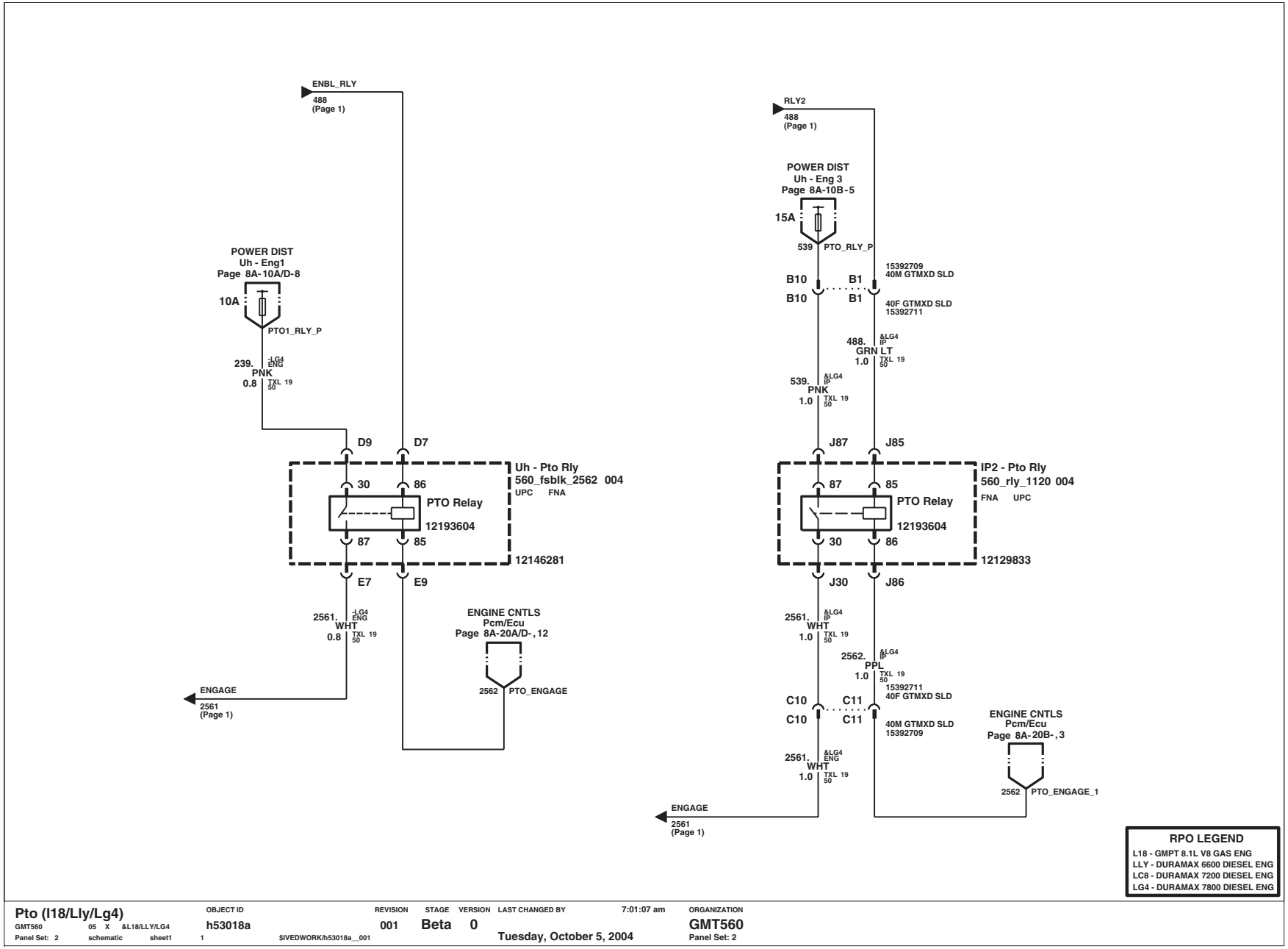
A31 - POWER WINDOWS
C35 - REAR HEATER
CREWCAB - CREW CAB

Ground Dist (LG5)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY		ORGANIZATION
GMT560 05 X &LG5	h53014c	001	Beta	0		8:35:07 am	GMT560
Panel Set: 12 schematic sheet1 13	$IVEDWORK/h53014c__001				Monday, May 3, 2004		Panel Set: 12

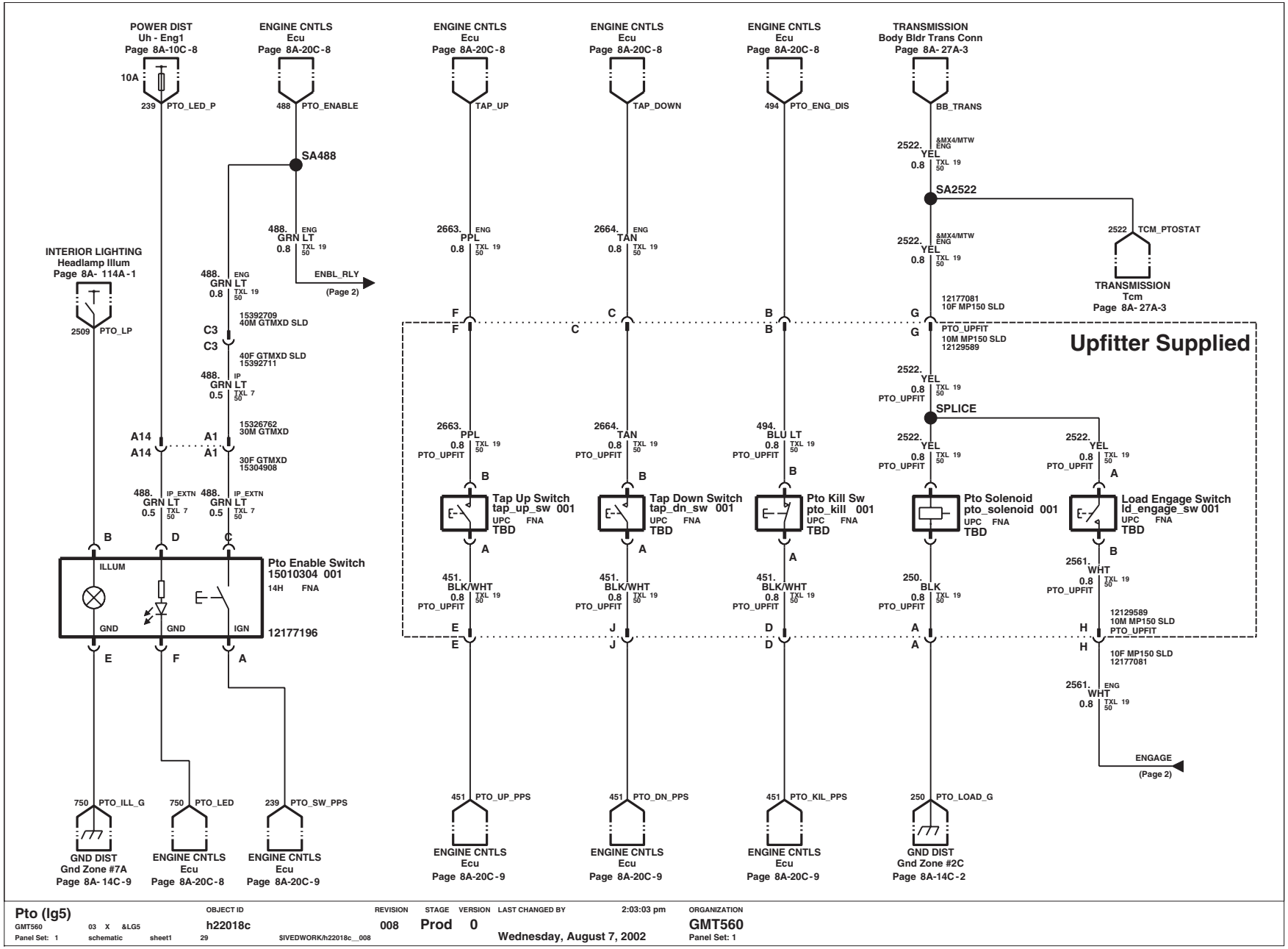
Upfitter Provision — (L18) 8.1L-Gas/NAPT — (LLY) 6.6L-Diesel/Duramax — (LG4) 7.8L-Diesel/Duramax



Upfitter Provision — (L18) 8.1L-Gas/NAPT — (LLY) 6.6L-Diesel/Duramax — (LG4) 7.8L-Diesel/Duramax



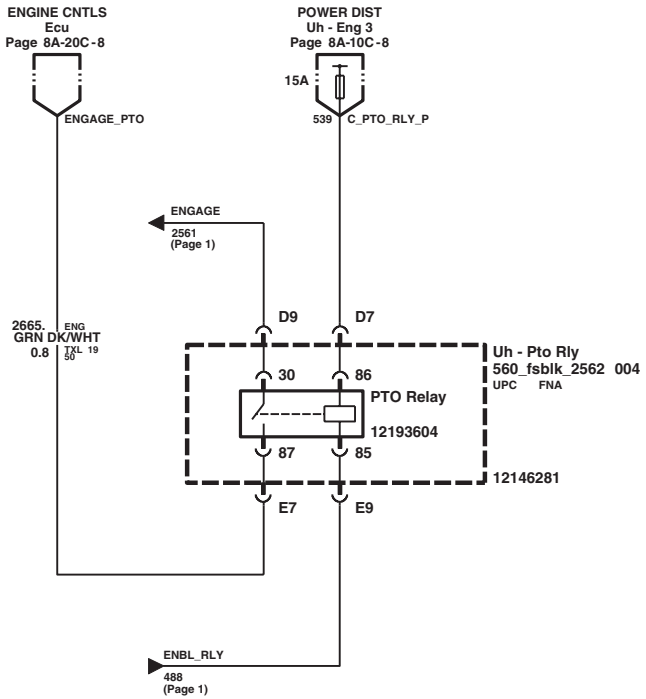
Upfitter Provision — (LG5) 7.2L-Diesel/CAT



Pto (lg5)	OBJECT ID		REVISION	STAGE	VERSION	LAST CHANGED BY	2:03:03 pm	ORGANIZATION
GMT560 03 X &LG5	h22018c		008	Prod	0			GMT560
Panel Set: 1 schematic sheet1 29	$IVEDWORK/h22018c__008					Wednesday, August 7, 2002		Panel Set: 1

Upfitter Provision — (LG5) 7.2L-Diesel/CAT

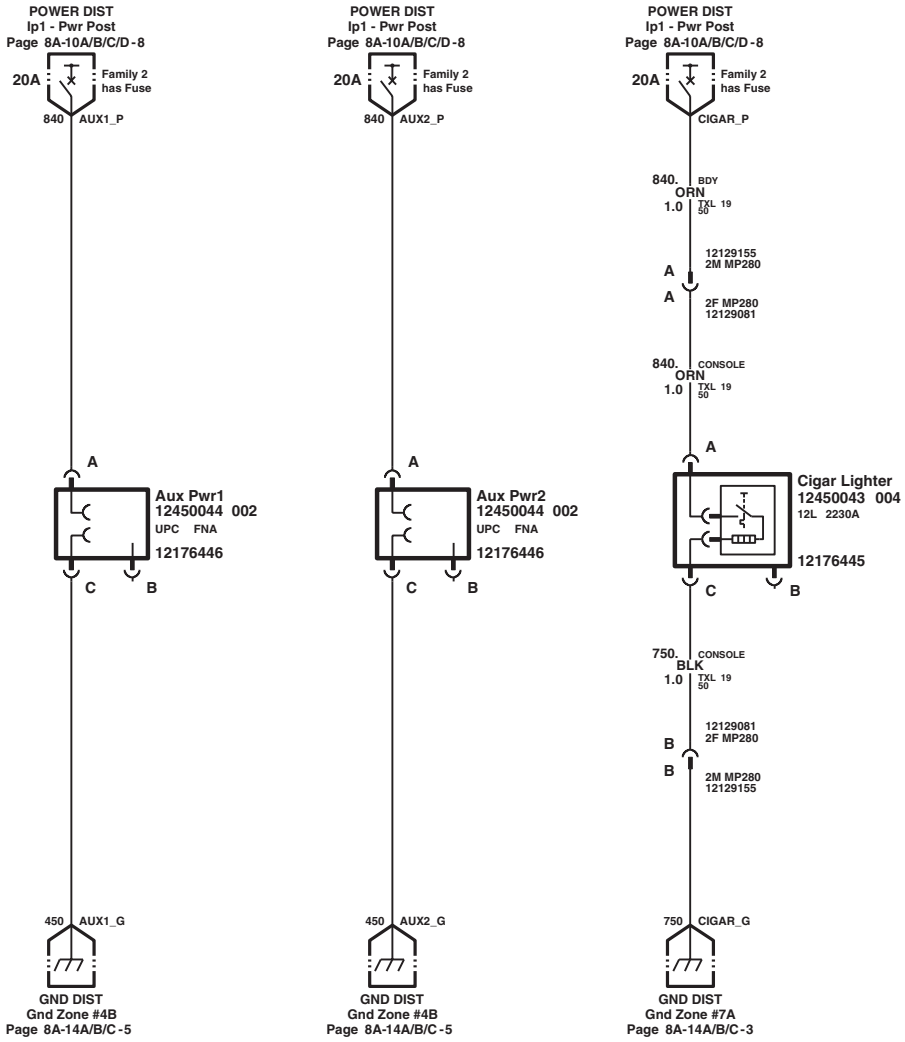
03 560 000	TY	PILOT B - INITIAL CREATION	27NO00	001
03 560 818	JG	REPLACED CBs WITH MINI-FUSES.	27NO00	001
03 560 1055	LR	Update RPO	18JL01	001
03 560 1149	JG	MTX replaces MTW (Fam 2)	19DE01	001
03 560 1106	JG	Update 900 ckts	08FE02	001



Pto (lg5)		OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY	2:03:03 pm	ORGANIZATION	
GMT560	03 X &LG5	h22018c	008	Prod	0			GMT560	
Panel Set: 2	schematic sheet1 29	$IVEDWORK/h22018c__008				Wednesday, August 7, 2002		Panel Set: 2	

Auxiliary Power

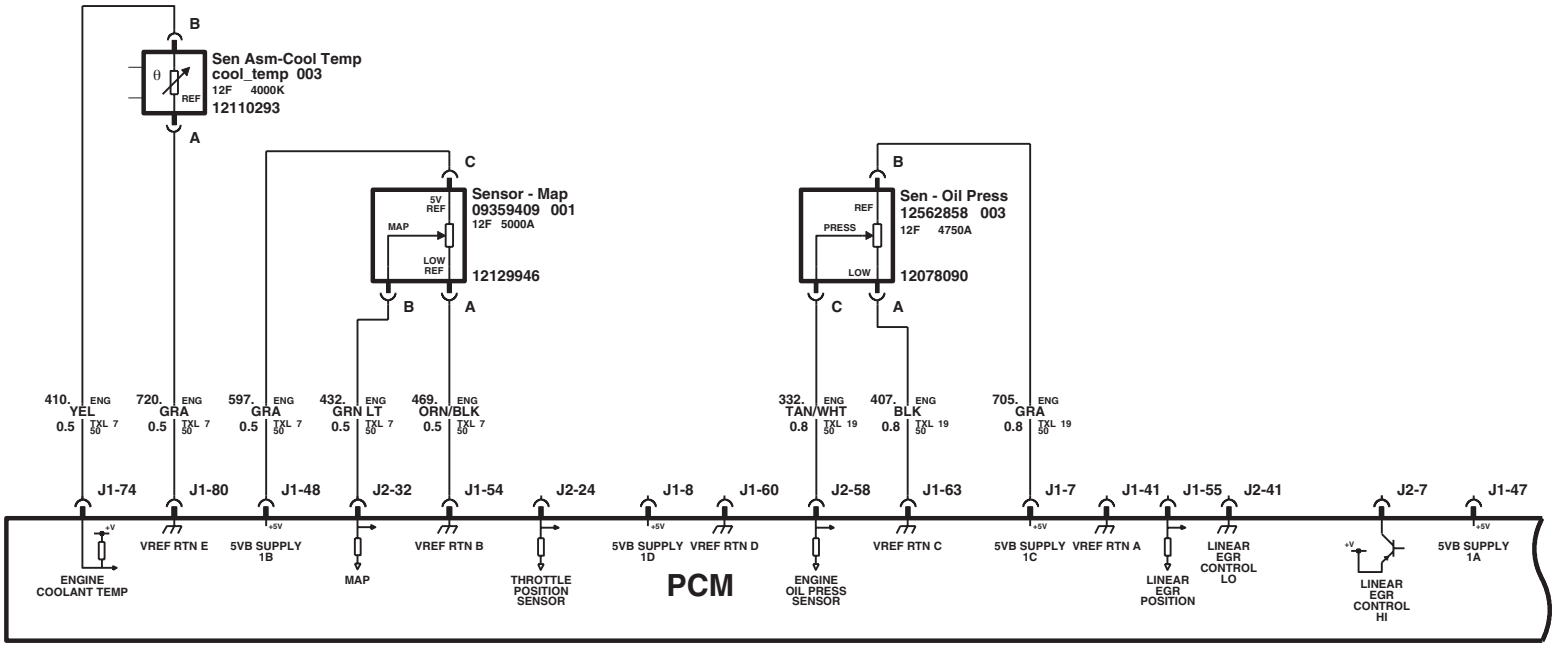
03 560 000	JG	PILOT B - INITIAL CREATION	20NO00	001
03 560 983	JG	Add Console Harness	10AP01	001
03 560 1012	JG	Remove Rear Outlets from Regular Cab	23AP01	001



Auxiliary Power		OBJECT ID		REVISION	STAGE	VERSION	LAST CHANGED BY	2:05:15 pm	ORGANIZATION
GMT560	03 X	h22019a		010	Pilot	B			GMT560
Panel Set: 1	schematic	sheet1	1	$IVEDWORK/h22019a__010			Wednesday, August 7, 2002		Panel Set: 1

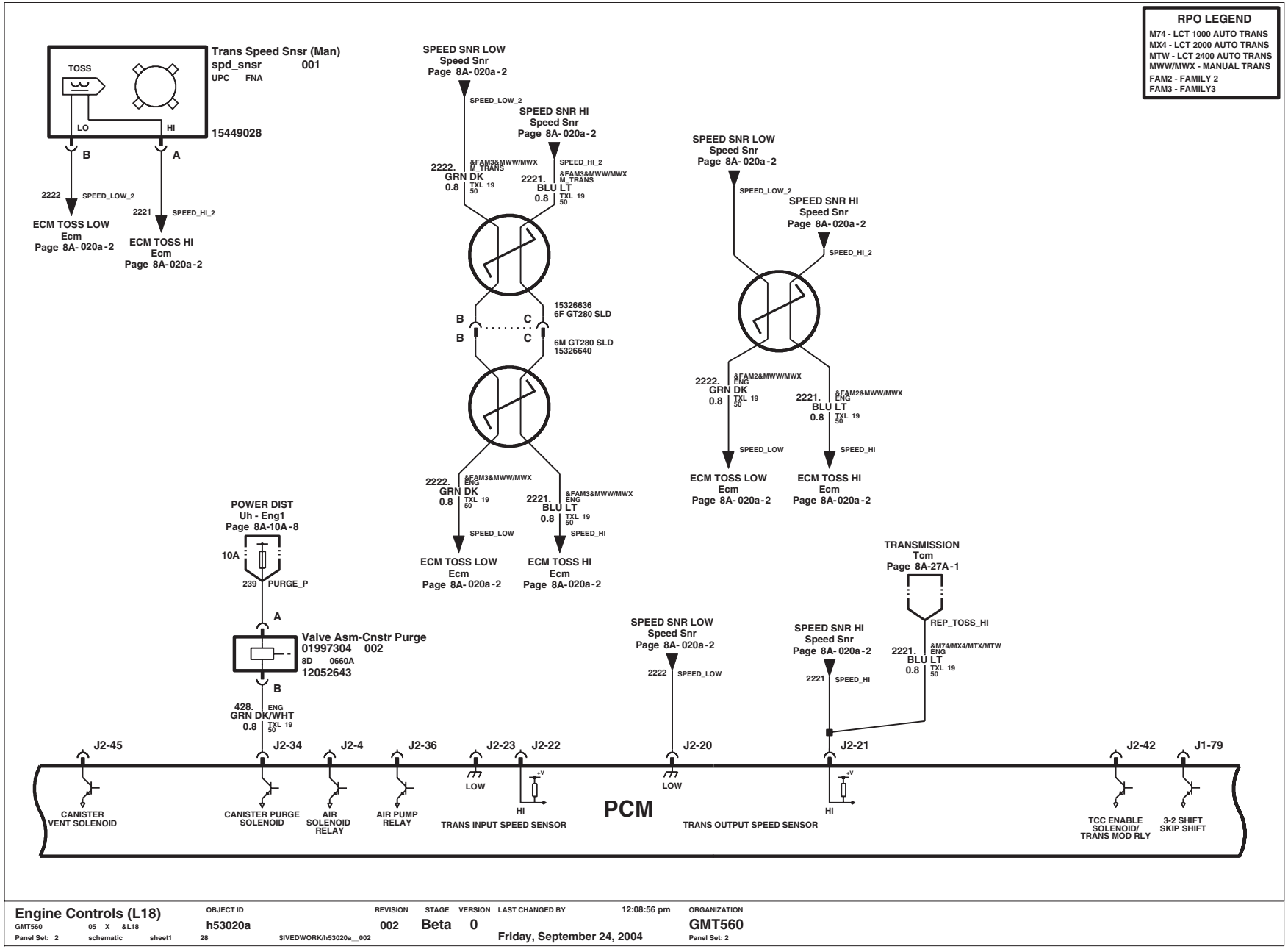
Engine Controls — (L18) 8.1L-Gas/NAPT

RPO LEGEND
NM2 - EXPORT EMISSION SYSTEM-LEADED FUEL

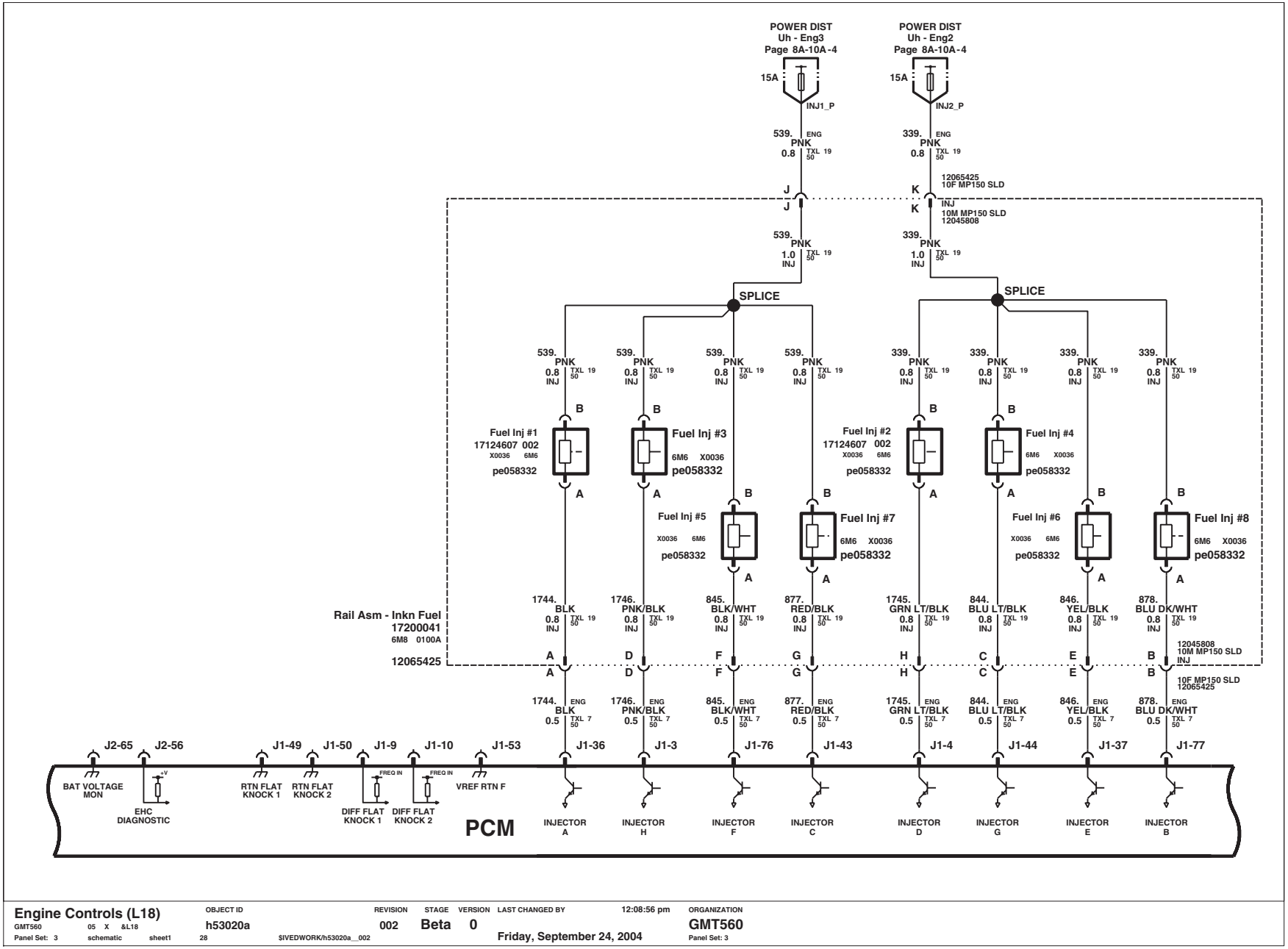


Engine Controls (L18)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY	12:08:56 pm	ORGANIZATION
GMT560 05 X &L18	h53020a	002	Beta	0			GMT560
Panel Set: 1 schematic sheet1 28	$IVEDWORK/h53020a__002				Friday, September 24, 2004		Panel Set: 1

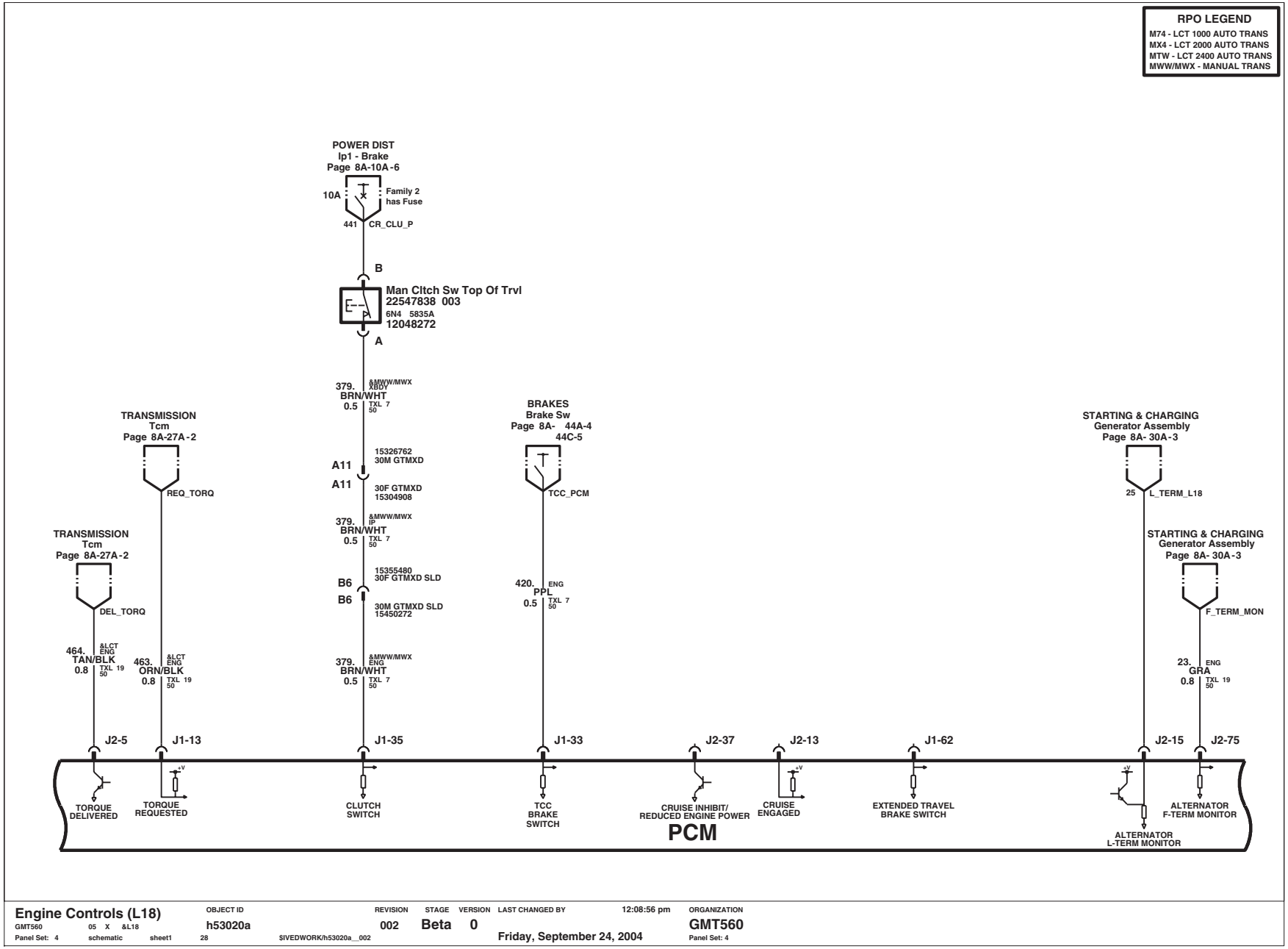
Engine Controls — (L18) 8.1L-Gas/NAPT



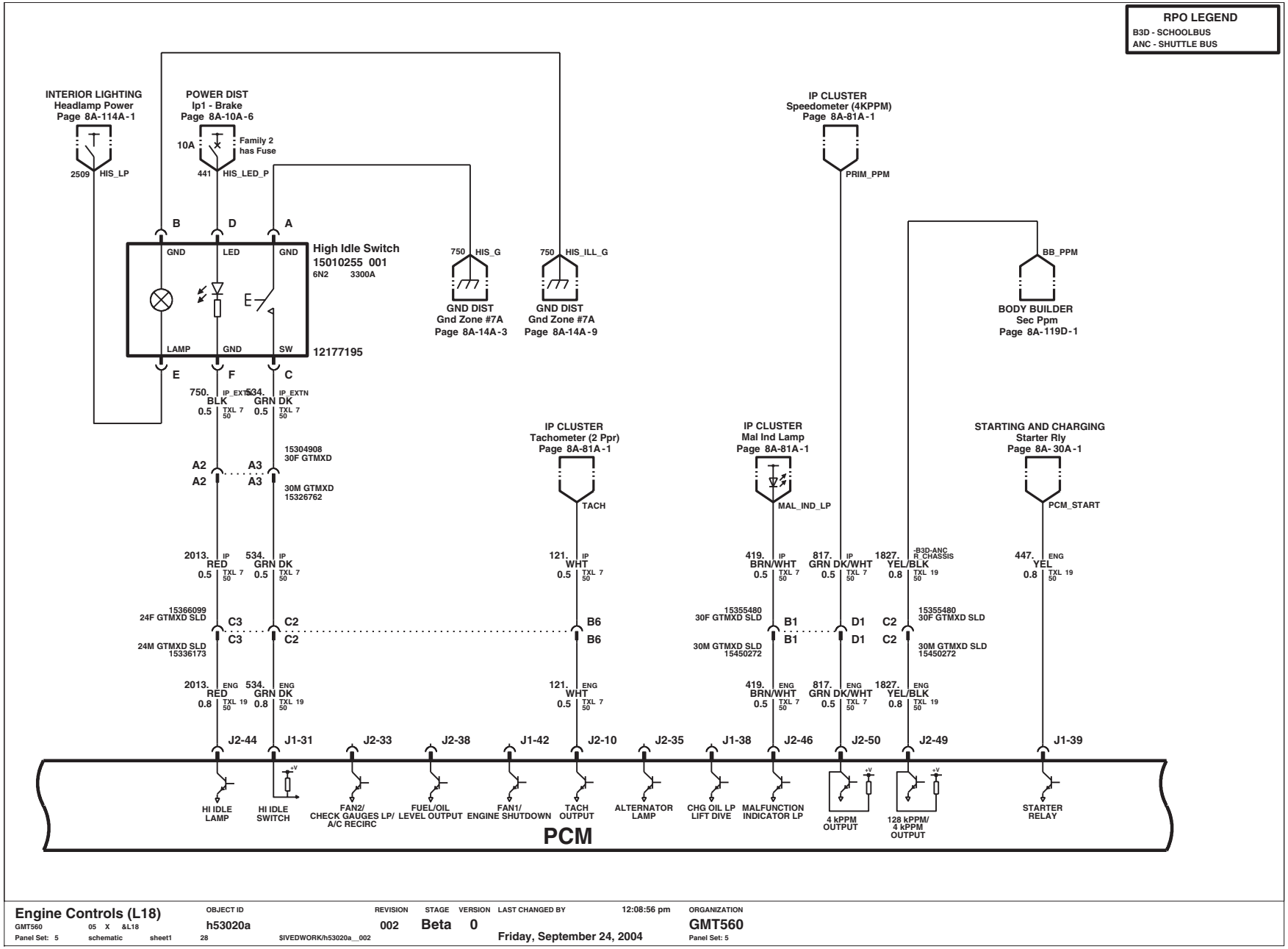
Engine Controls — (L18) 8.1L-Gas/NAPT



Engine Controls — (L18) 8.1L-Gas/NAPT

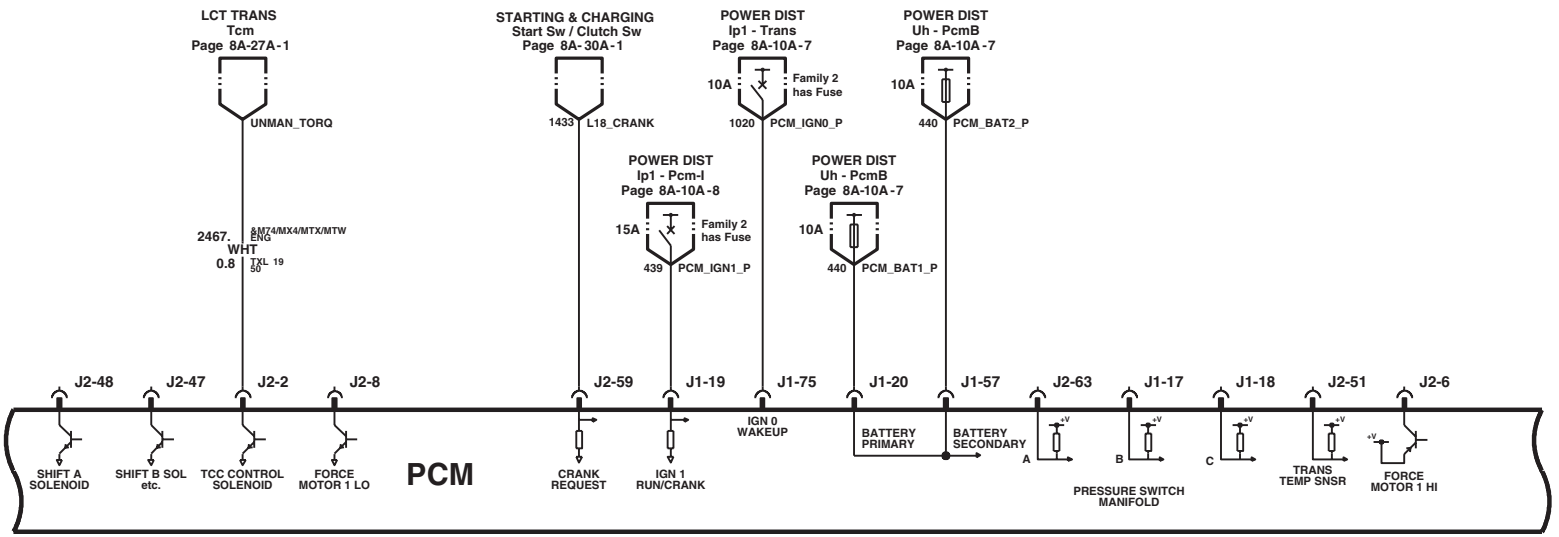


Engine Controls — (L18) 8.1L-Gas/NAPT



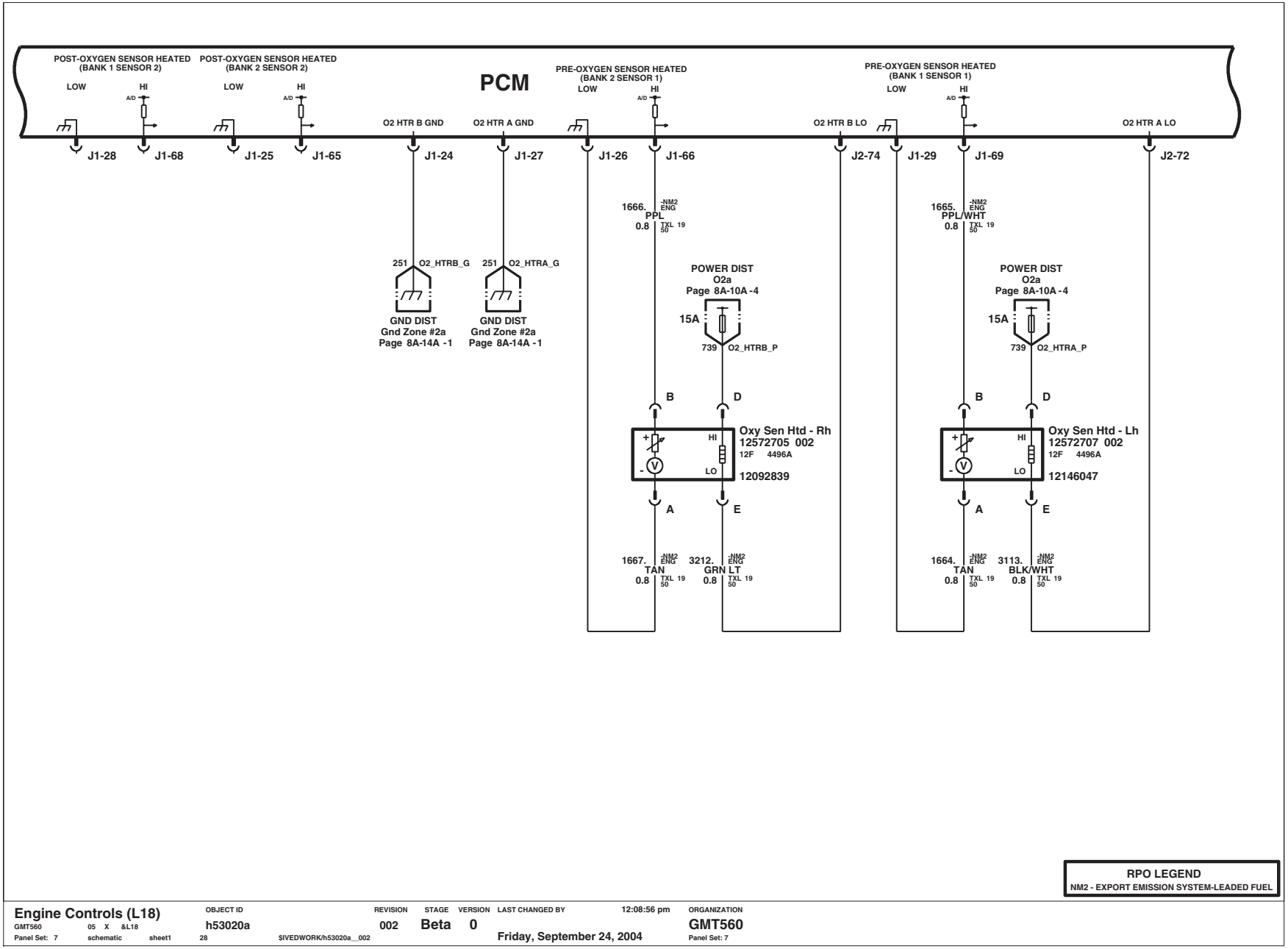
Engine Controls — (L18) 8.1L-Gas/NAPT

RPO LEGEND
M74 - LCT 1000 AUTO TRANS
MX4 - LCT 2000 AUTO TRANS
MTW - LCT 2400 AUTO TRANS

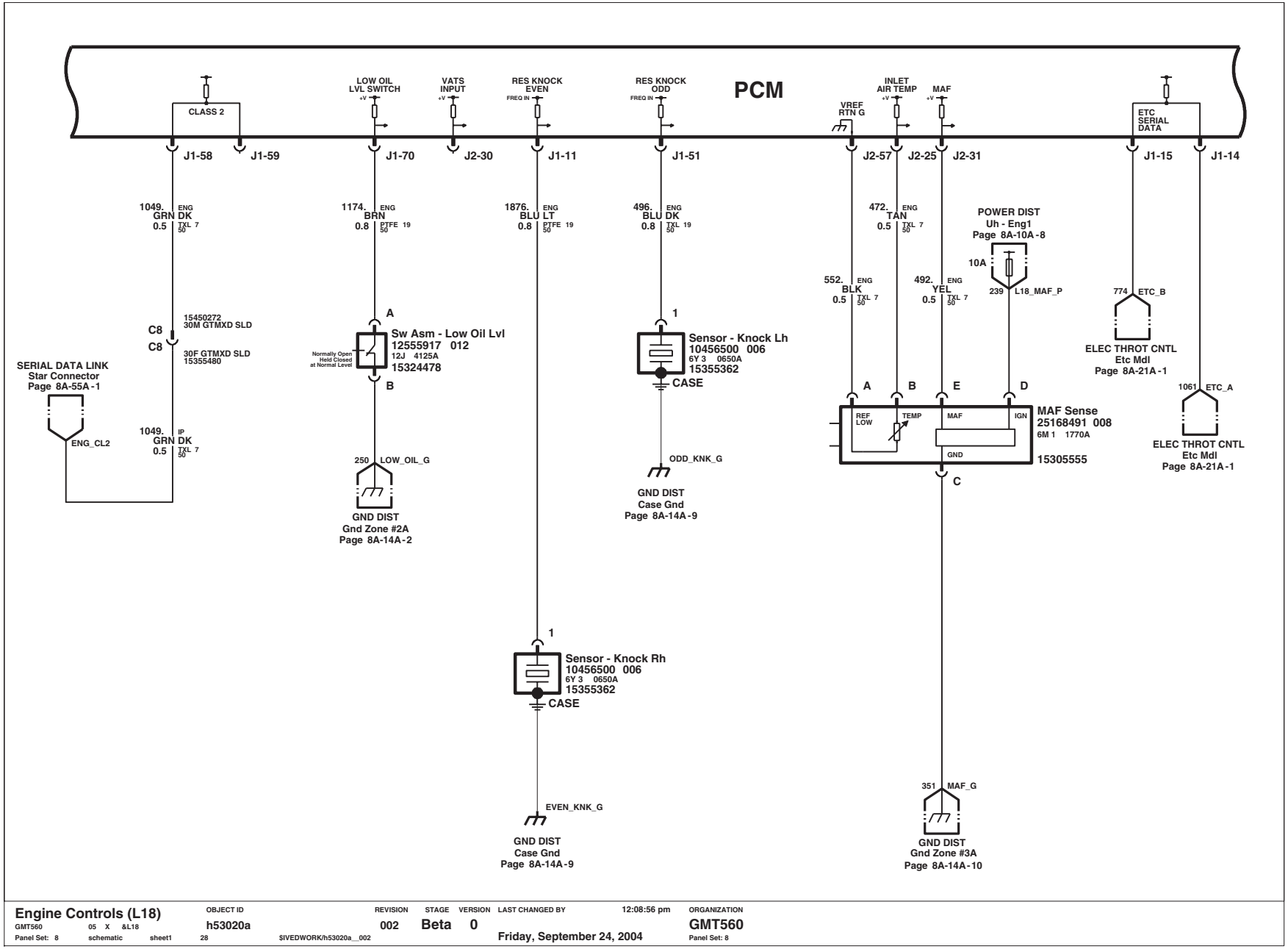


Engine Controls (L18)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY	12:08:56 pm	ORGANIZATION
GMT560 05 X &L18	h53020a	002	Beta	0			GMT560
Panel Set: 6 schematic sheet1 28	$IVEDWORK/h53020a__002				Friday, September 24, 2004		Panel Set: 6

Engine Controls — (L18) 8.1L-Gas/NAPT

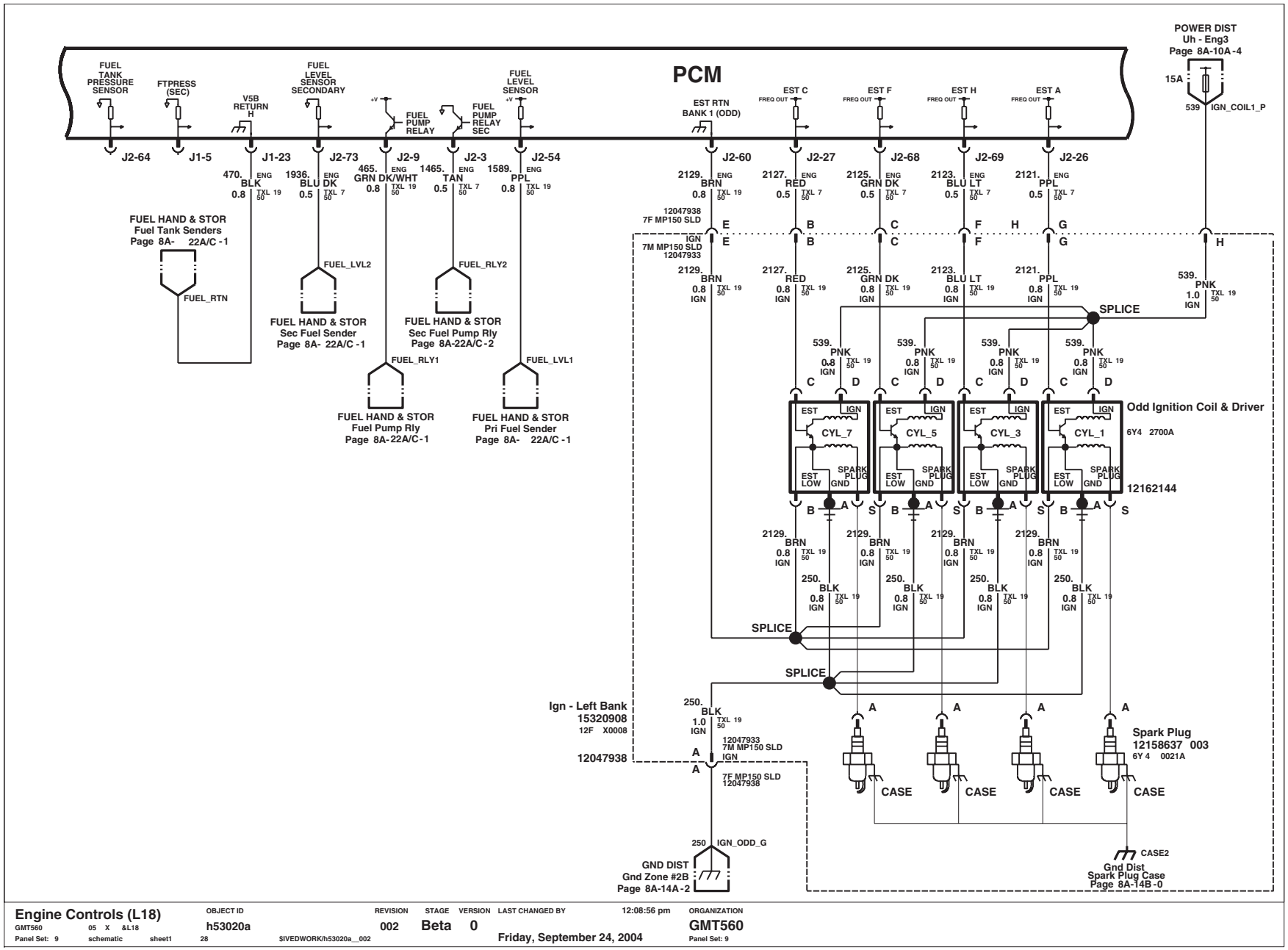


Engine Controls — (L18) 8.1L-Gas/NAPT

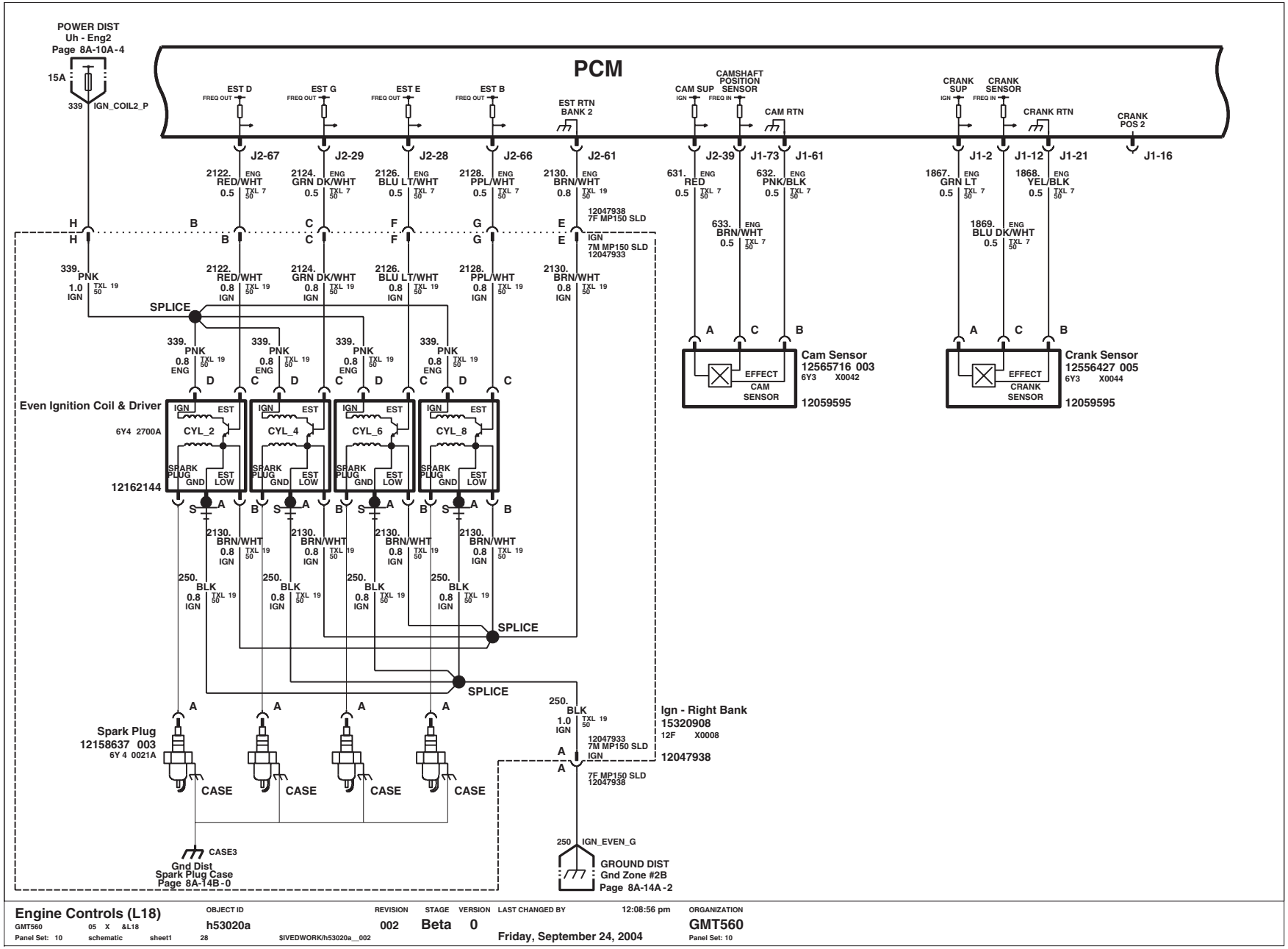


Engine Controls (L18)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY		ORGANIZATION
GMT560 05 X &L18	h53020a	002	Beta	0		12:08:56 pm	GMT560
Panel Set: 8 schematic sheet1 28	$IVEDWORK/h53020a__002				Friday, September 24, 2004		Panel Set: 8

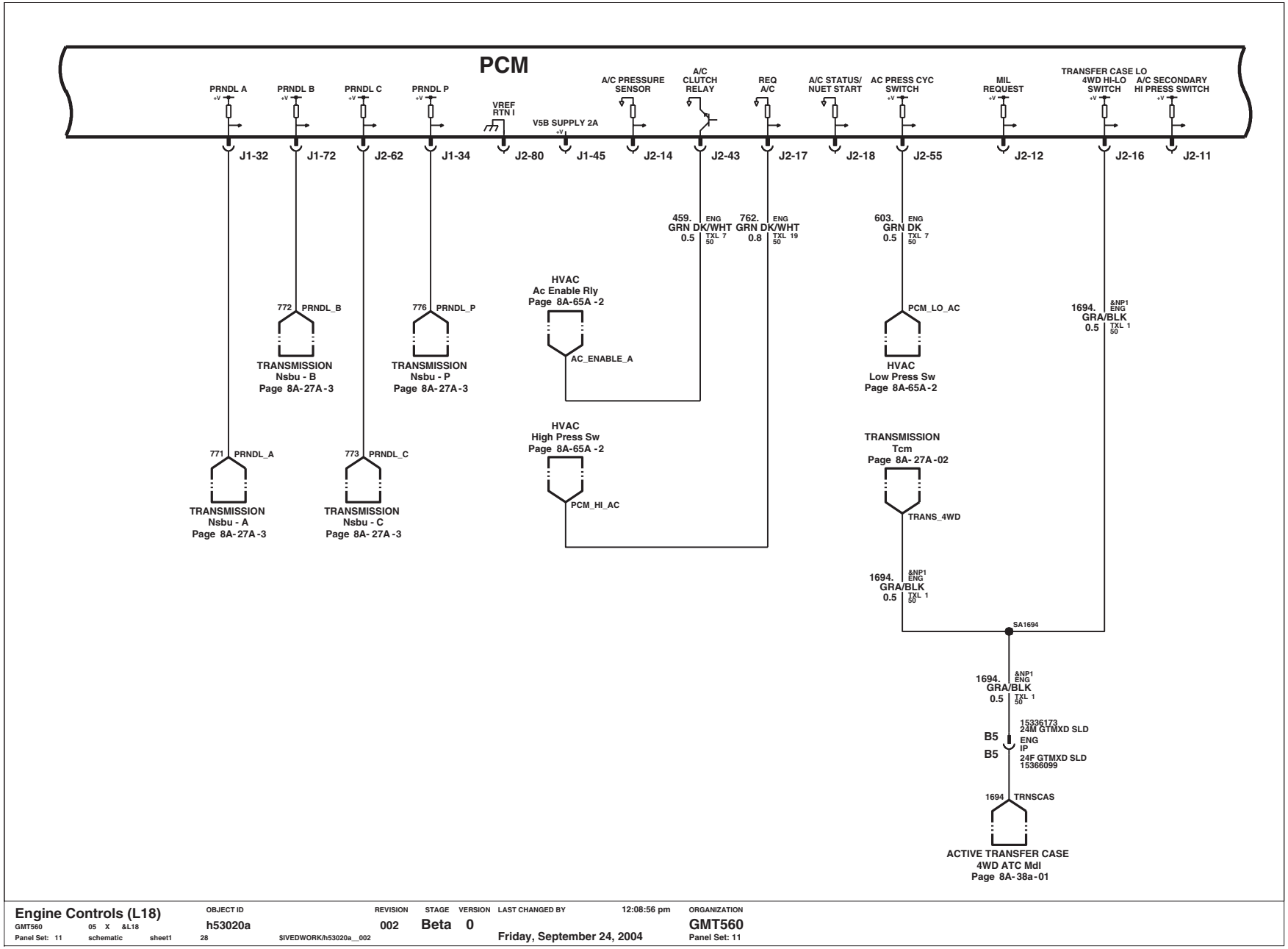
Engine Controls — (L18) 8.1L-Gas/NAPT



Engine Controls — (L18) 8.1L-Gas/NAPT



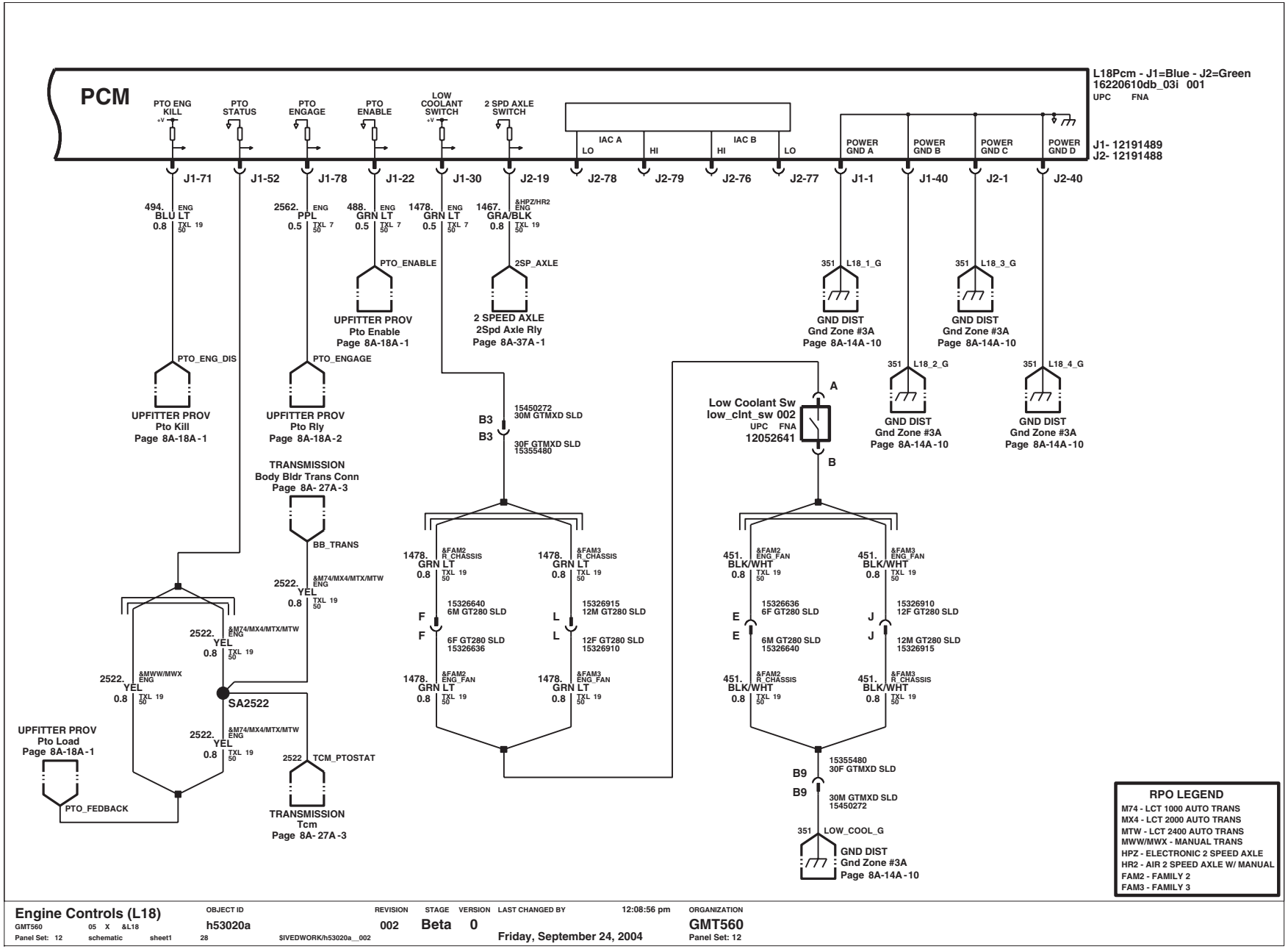
Engine Controls — (L18) 8.1L-Gas/NAPT



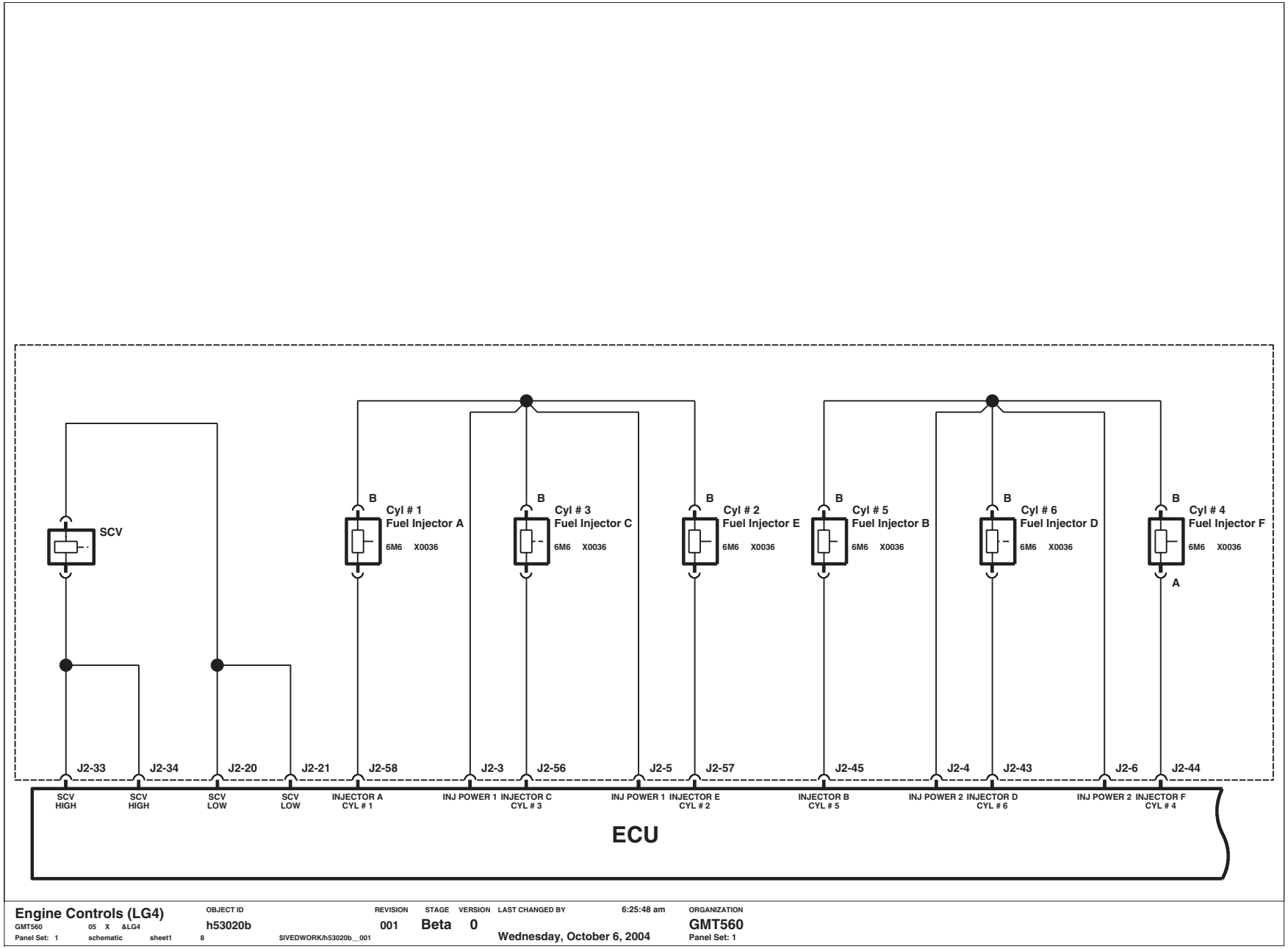
Engine Controls (L18)
GMT560 05 X &L18
Panel Set: 11 schematic sheet1 28

OBJECT ID h53020a
REVISION 002
STAGE Beta
VERSION 0
LAST CHANGED BY $IVEDWORK/h53020a__002
12:08:56 pm Friday, September 24, 2004
ORGANIZATION GMT560
Panel Set: 11

Engine Controls — (L18) 8.1L-Gas/NAPT



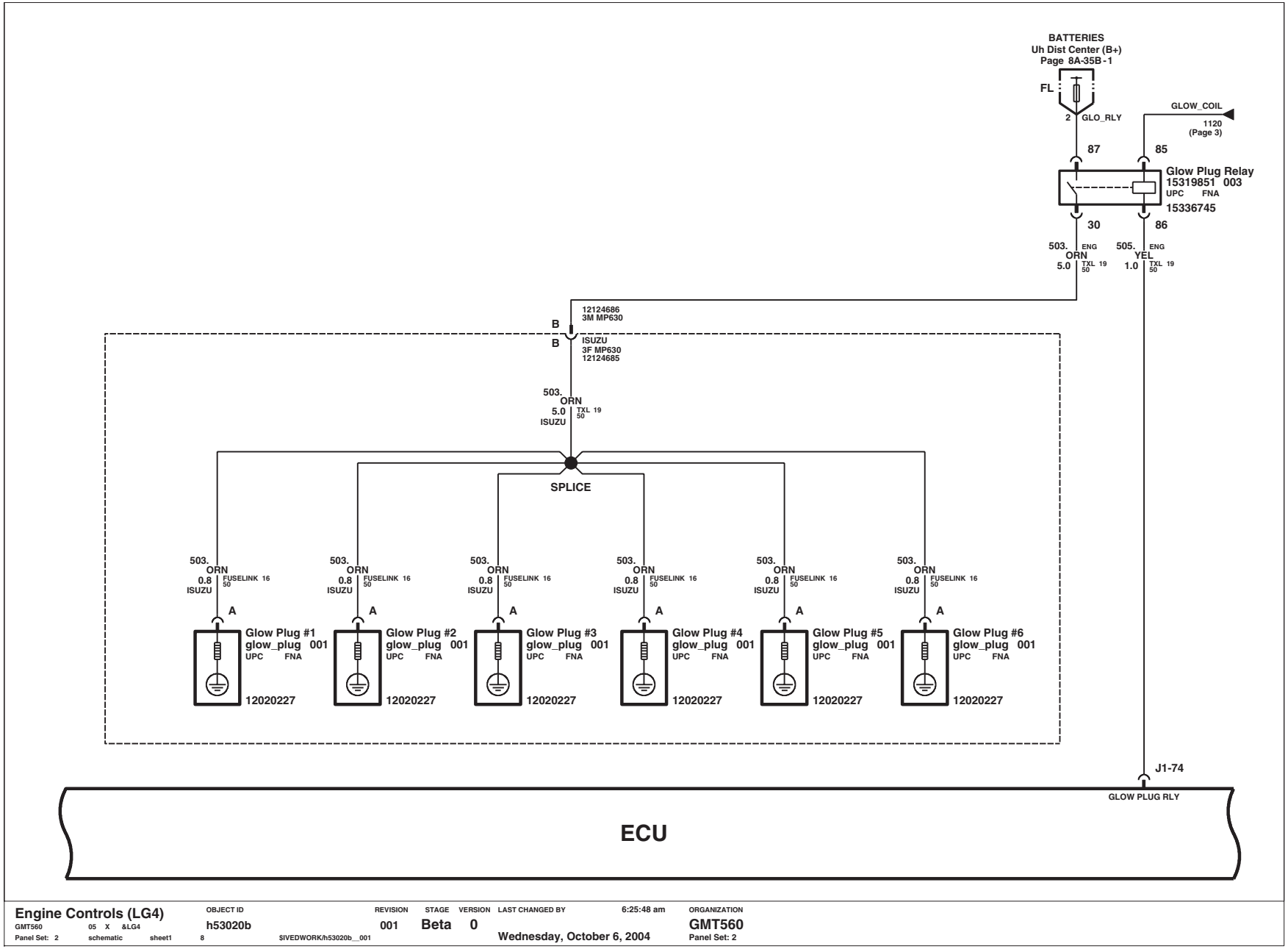
Engine Controls — (LG4) 7.8L-Diesel/Duramax



Engine Controls (LG4)
GMT560 05 X &LG4
Panel Set: 1 schematic sheet1 8

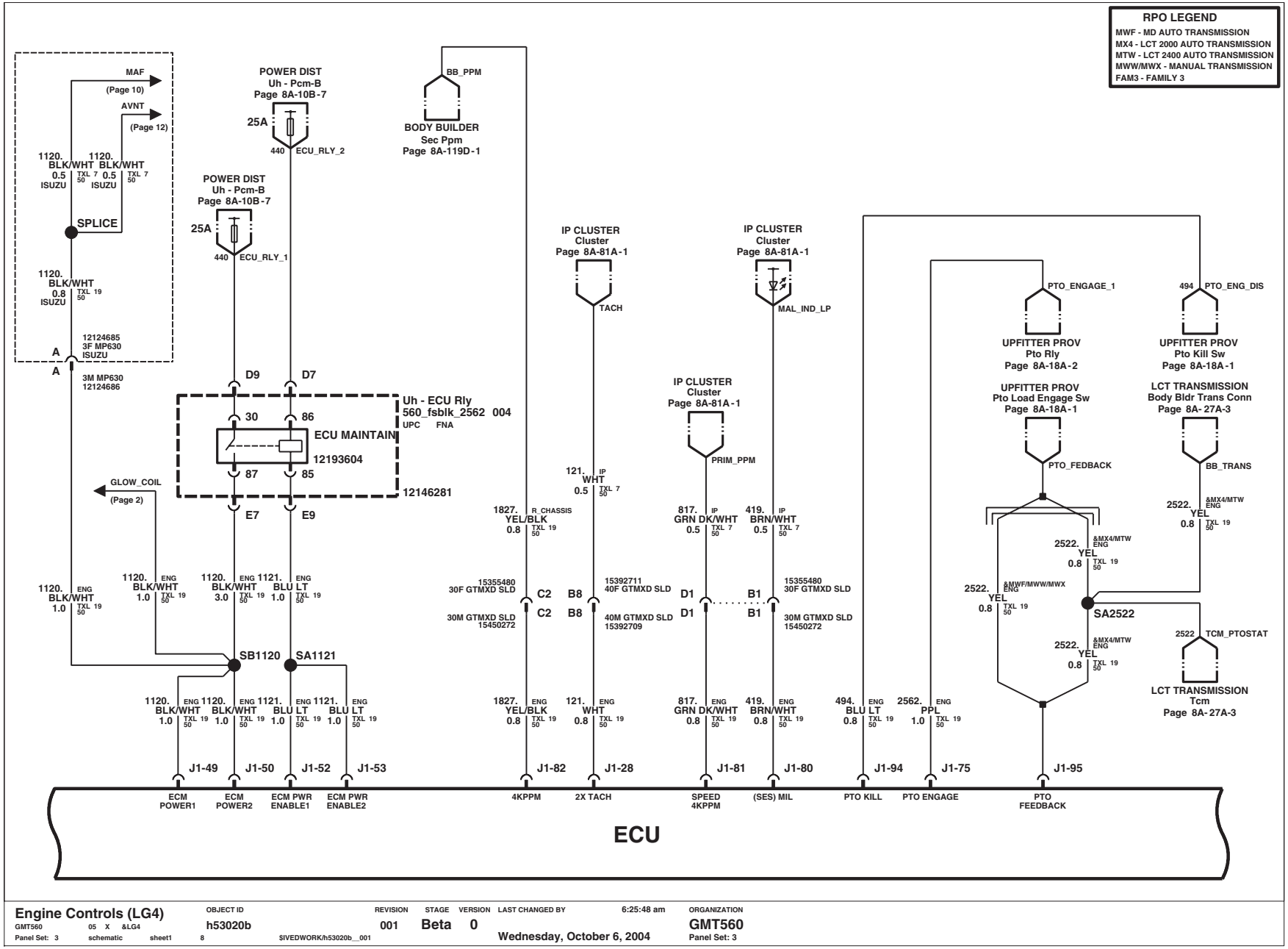
OBJECT ID: h53020b
REVISION: 001
STAGE: Beta
VERSION: 0
LAST CHANGED BY:
$IVEDWORK/h53020b__001
6:25:48 am
Wednesday, October 6, 2004
ORGANIZATION: GMT560
Panel Set: 1

Engine Controls — (LG4) 7.8L-Diesel/Duramax

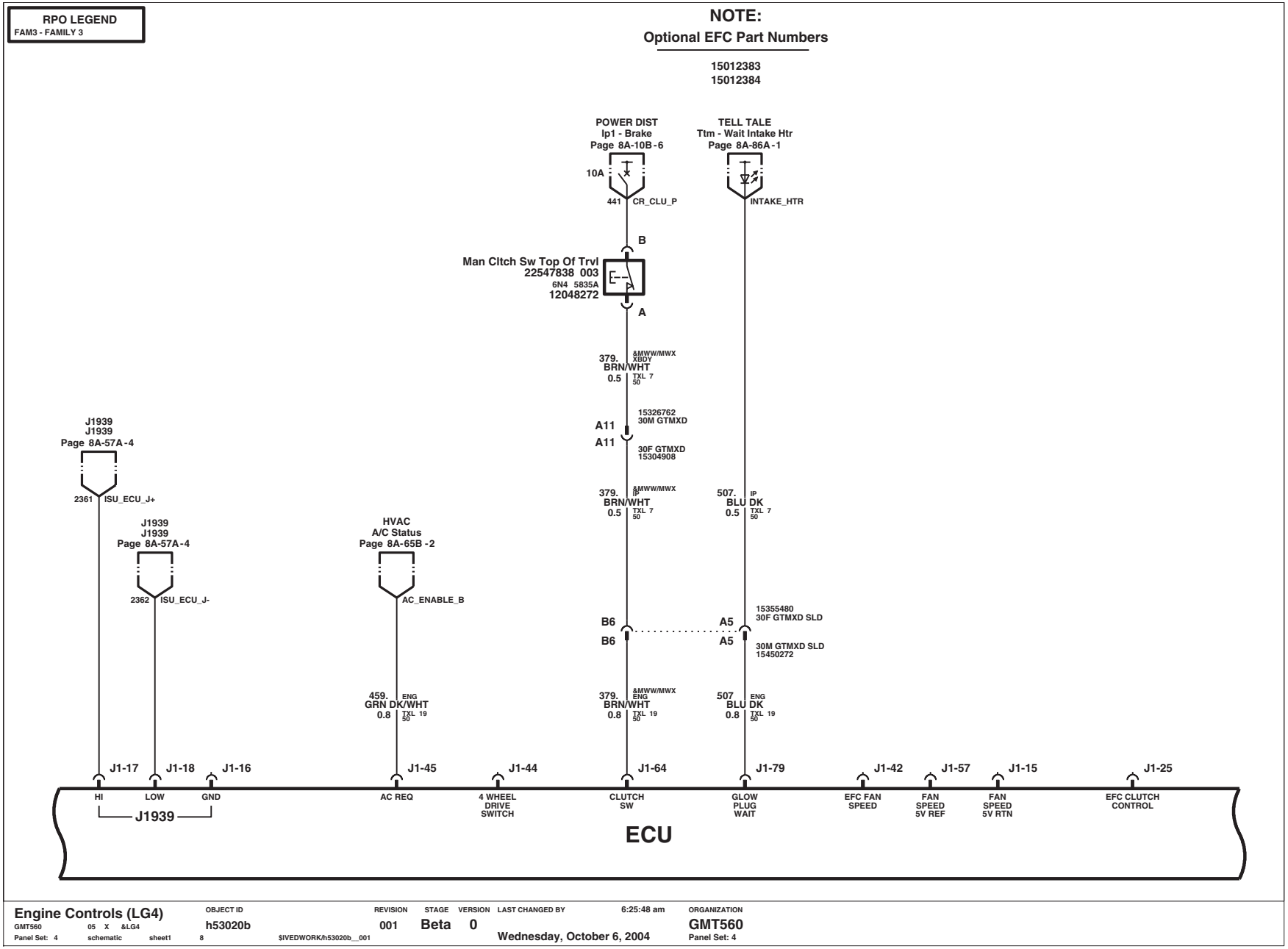


Engine Controls (LG4)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY		ORGANIZATION
GMT560 05 X &LG4	h53020b	001	Beta	0		6:25:48 am	GMT560
Panel Set: 2 schematic sheet1 8	$IVEDWORK/h53020b__001				Wednesday, October 6, 2004		Panel Set: 2

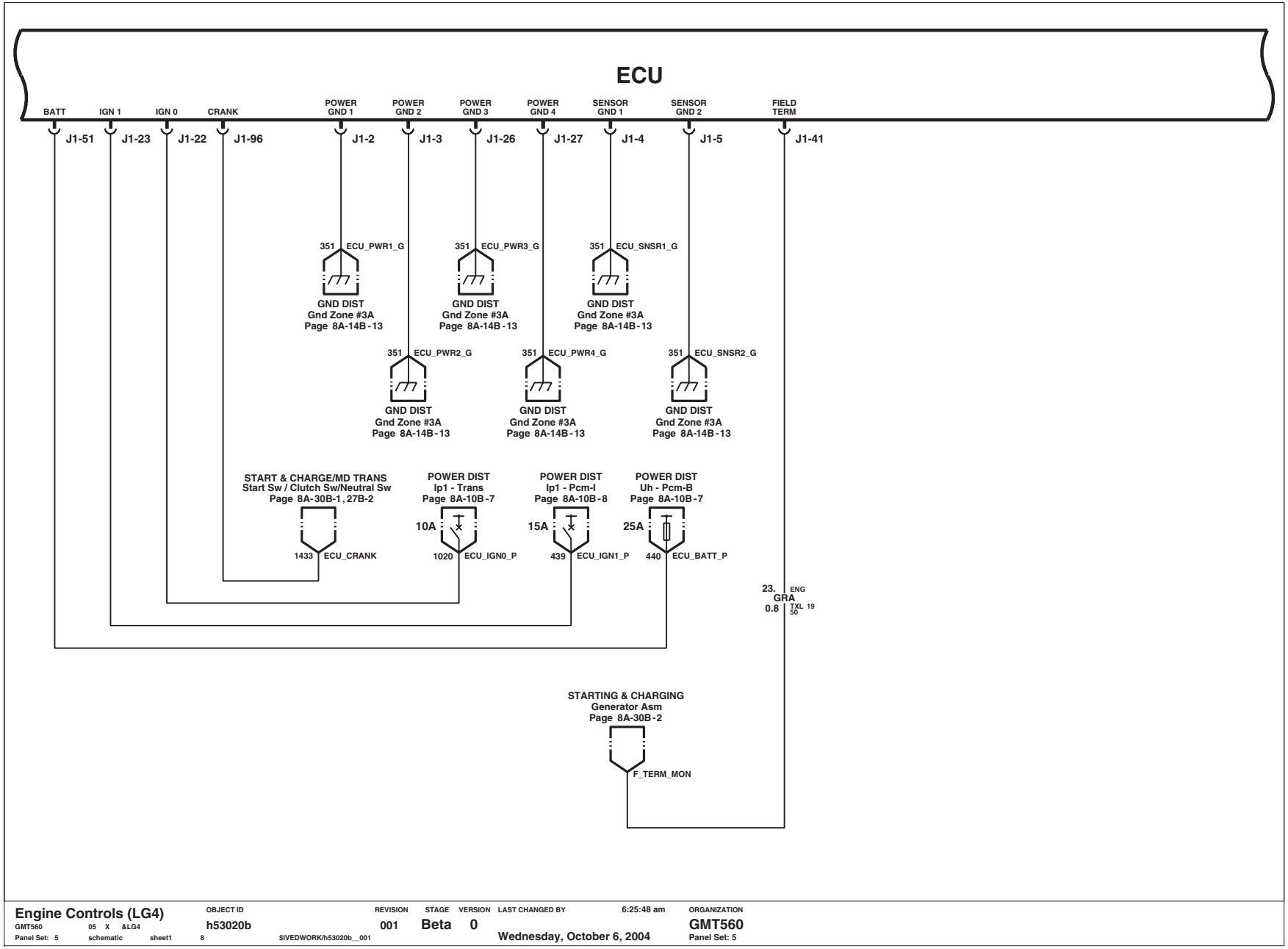
Engine Controls — (LG4) 7.8L-Diesel/Duramax



Engine Controls — (LG4) 7.8L-Diesel/Duramax

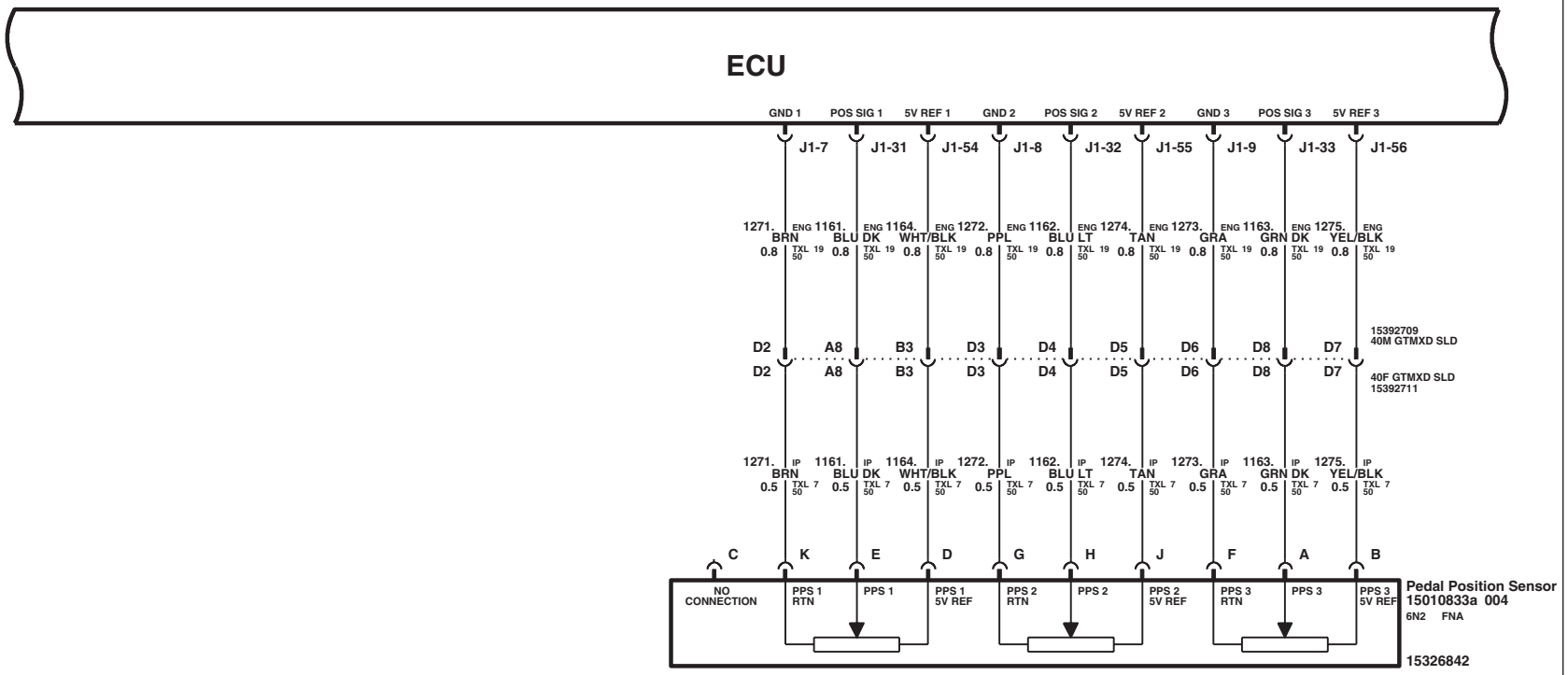


Engine Controls — (LG4) 7.8L-Diesel/Duramax



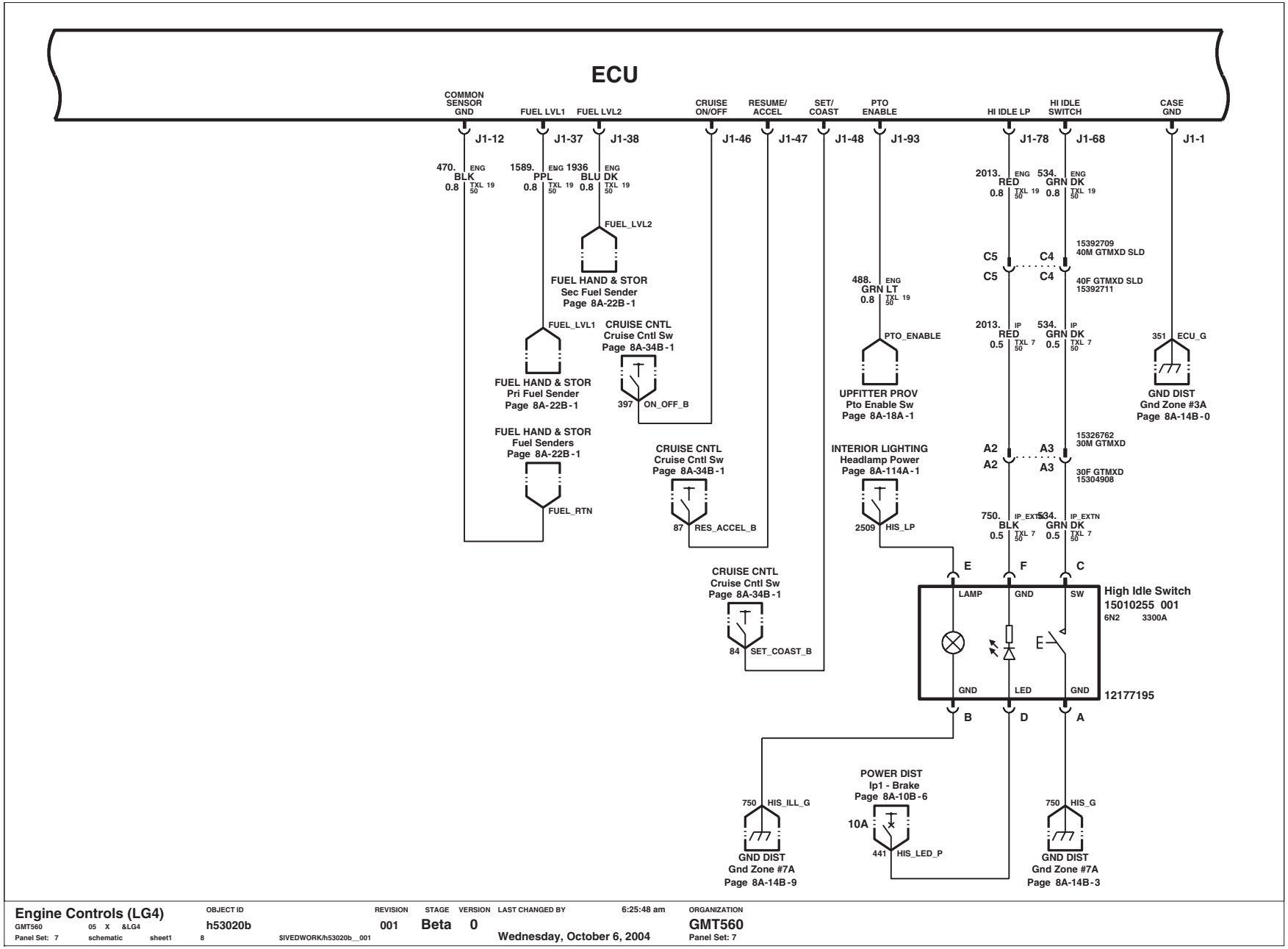
Engine Controls (LG4)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY	6:25:48 am	ORGANIZATION
GMT560 05 X &LG4	h53020b	001	Beta	0			GMT560
Panel Set: 5 schematic sheet1 8	$IVEDWORK/h53020b__001				Wednesday, October 6, 2004		Panel Set: 5

Engine Controls — (LG4) 7.8L-Diesel/Duramax



Engine Controls (LG4)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY	6:25:48 am	ORGANIZATION
GMT560 05 X &LG4	h53020b	001	Beta	0			GMT560
Panel Set: 6 schematic sheet1 8	$IVEDWORK/h53020b__001				Wednesday, October 6, 2004		Panel Set: 6

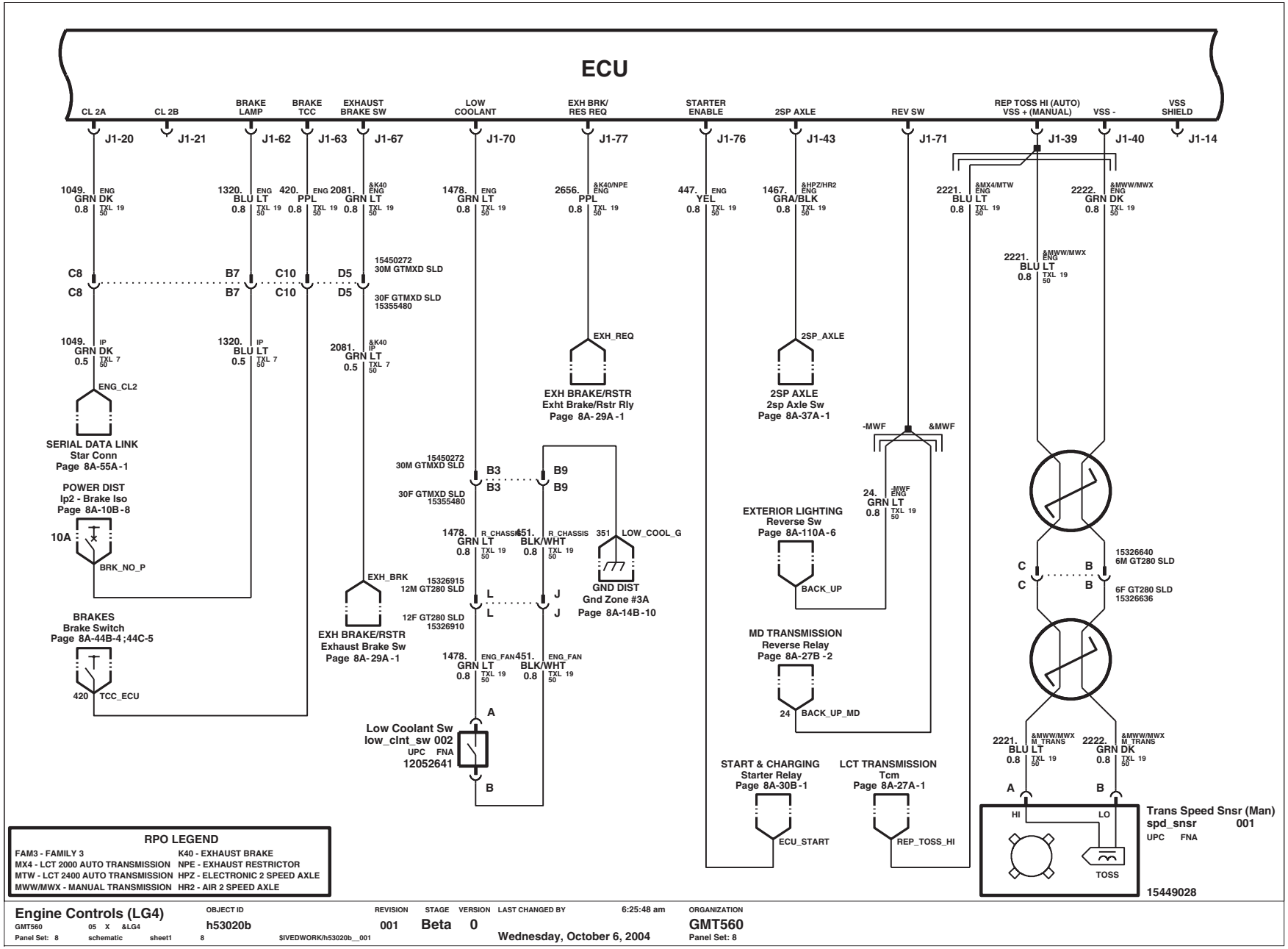
Engine Controls — (LG4) 7.8L-Diesel/Duramax



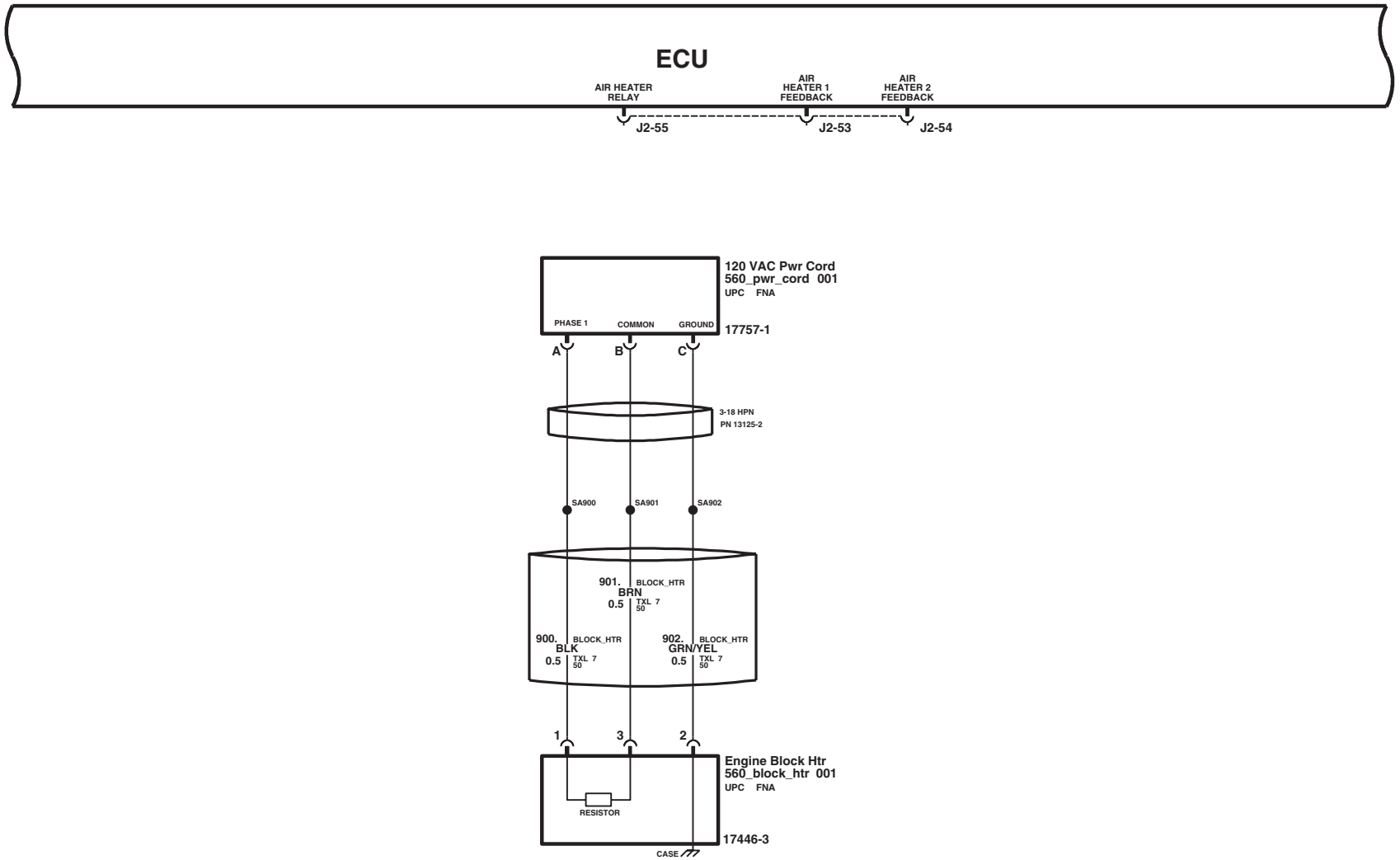
Engine Controls (LG4)
GMT560 05 X &LG4 Panel Set: 7 schematic sheet1 8

OBJECT ID h53020b
REVISION 001
STAGE Beta
VERSION 0
LAST CHANGED BY $IVEDWORK/h53020b__001
6:25:48 am Wednesday, October 6, 2004
ORGANIZATION GMT560 Panel Set: 7

Engine Controls — (LG4) 7.8L-Diesel/Duramax

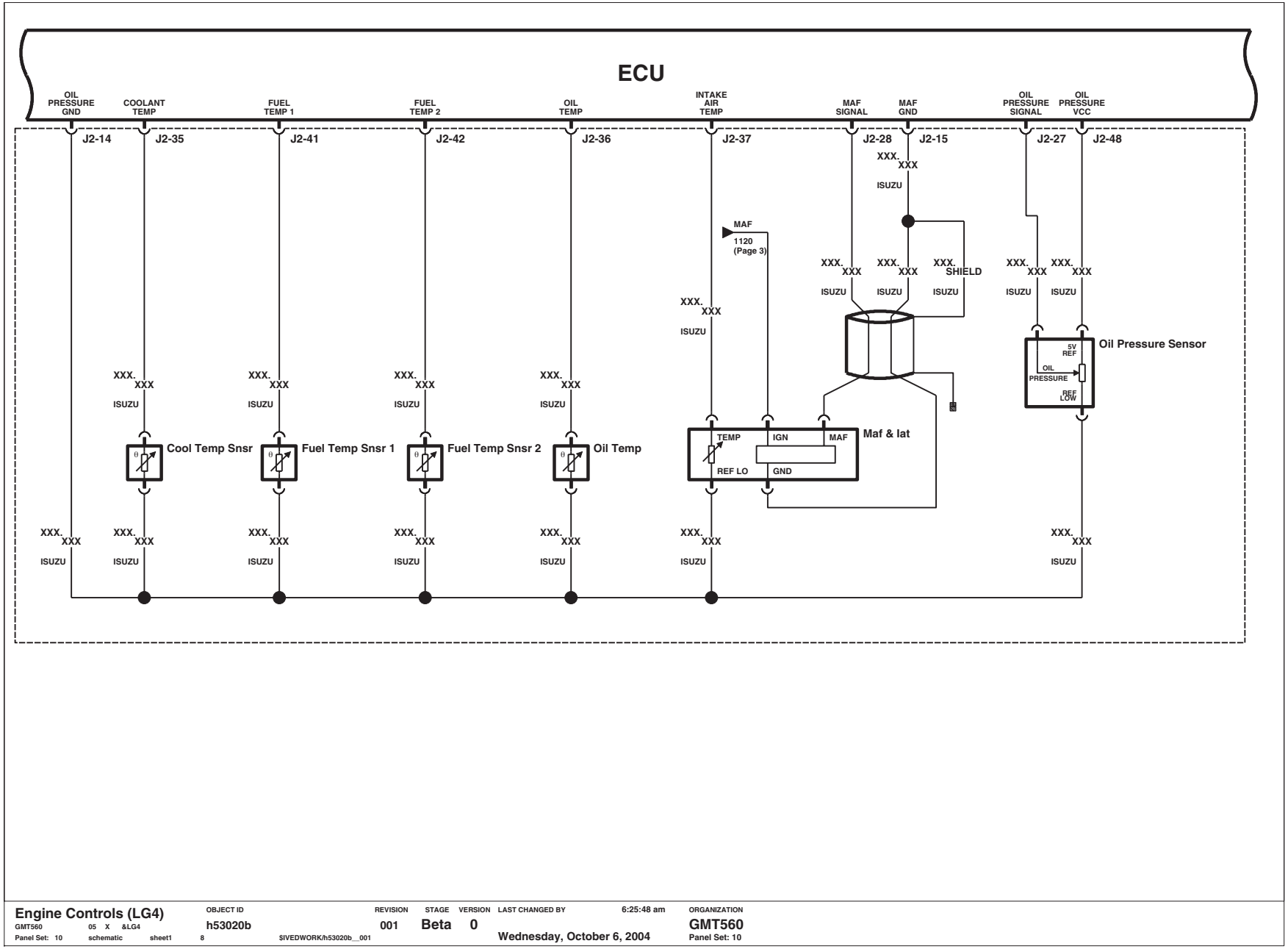


Engine Controls — (LG4) 7.8L-Diesel/Duramax



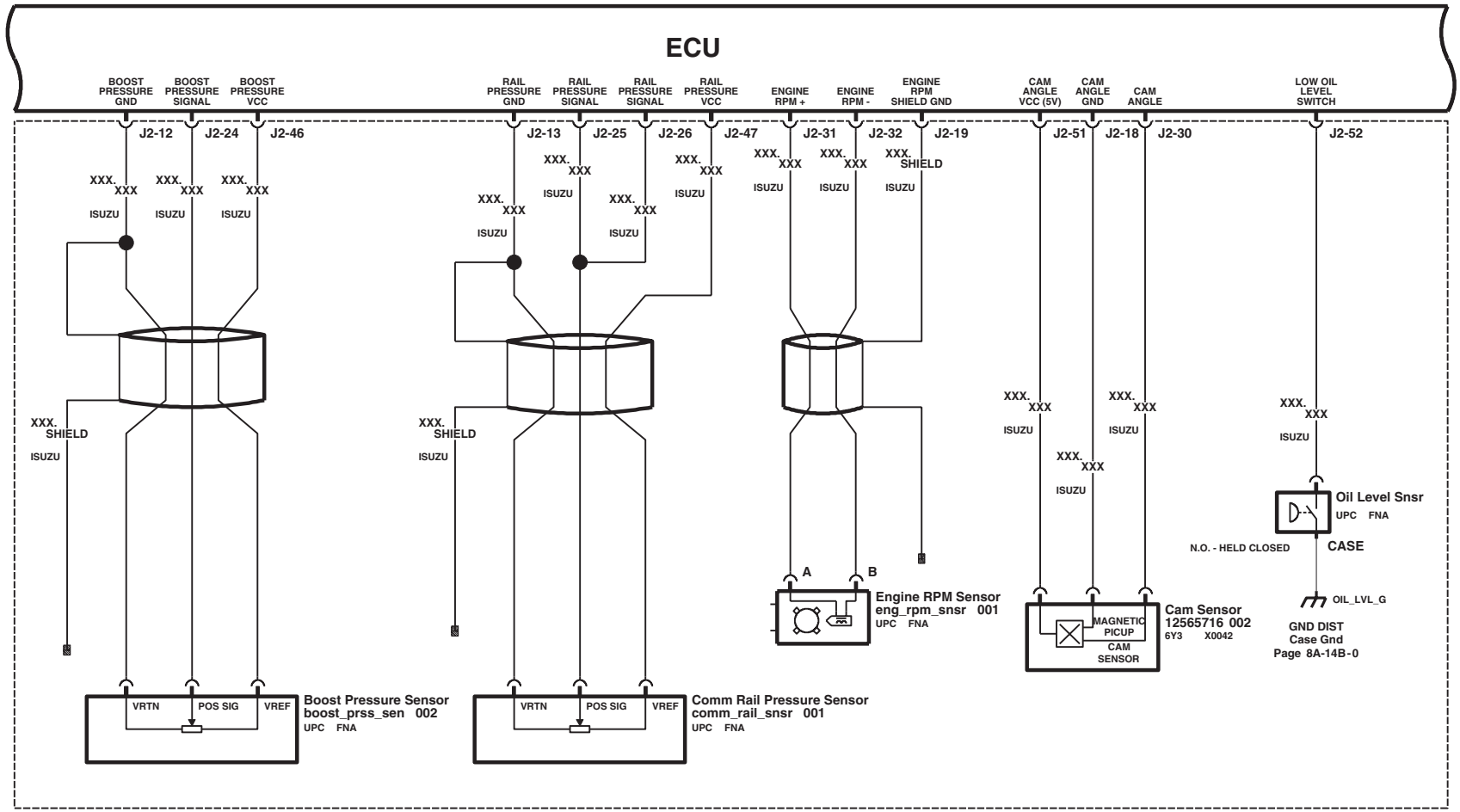
Engine Controls (LG4)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY	6:25:48 am	ORGANIZATION
GMT560 05 X &LG4	h53020b	001	Beta	0			GMT560
Panel Set: 9 schematic sheet1 8	$IVEDWORK/h53020b__001				Wednesday, October 6, 2004		Panel Set: 9

Engine Controls — (LG4) 7.8L-Diesel/Duramax



Engine Controls (LG4)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY		ORGANIZATION
GMT560 05 X &LG4	h53020b	001	Beta	0		6:25:48 am	GMT560
Panel Set: 10 schematic sheet1 8	$IVEDWORK/h53020b__001				Wednesday, October 6, 2004		Panel Set: 10

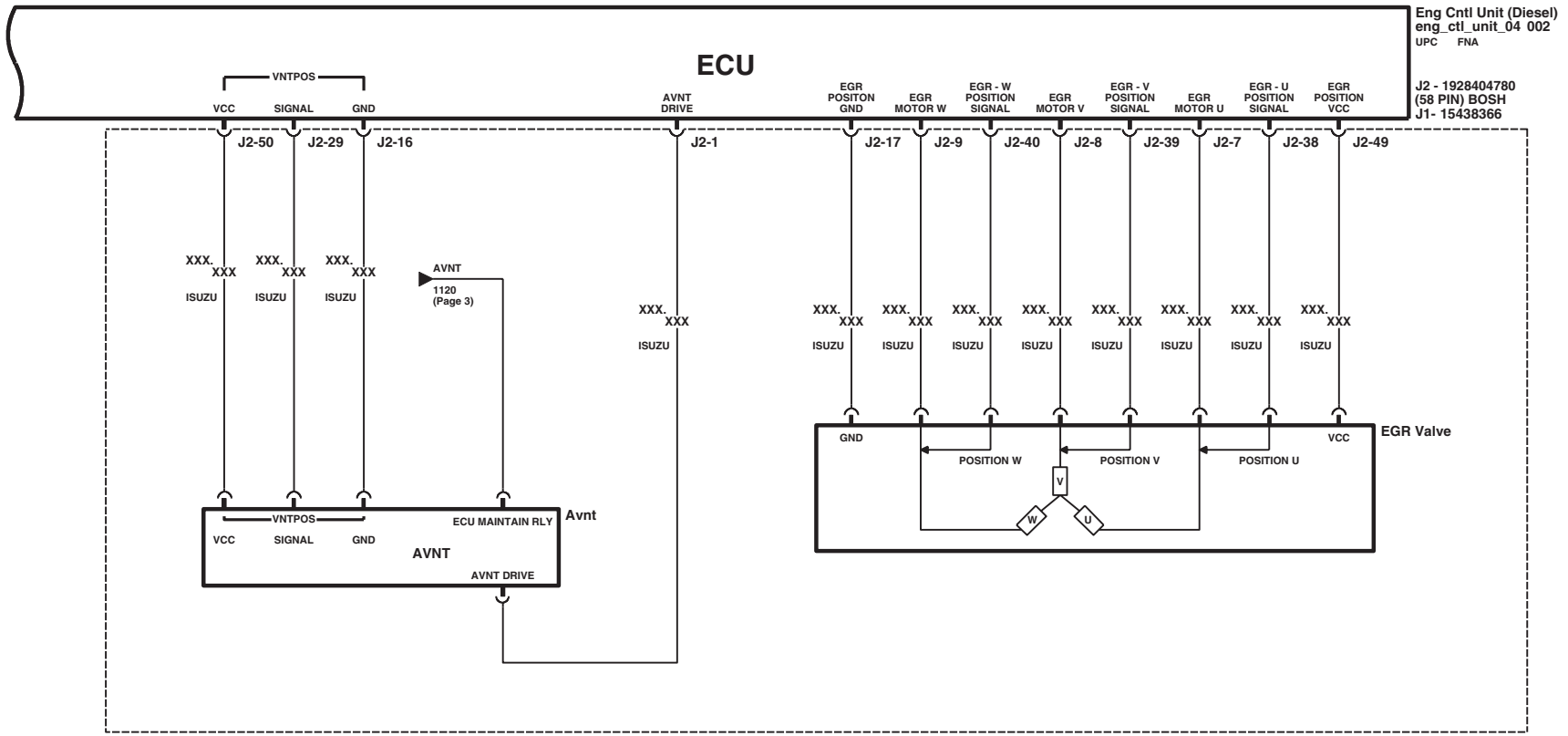
Engine Controls — (LG4) 7.8L-Diesel/Duramax



Engine Controls (LG4)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY		ORGANIZATION
GMT560 05 X &LG4	h53020b	001	Beta	0		6:25:48 am	GMT560
Panel Set: 11 schematic sheet1 8	$IVEDWORK/h53020b__001				Wednesday, October 6, 2004		Panel Set: 11

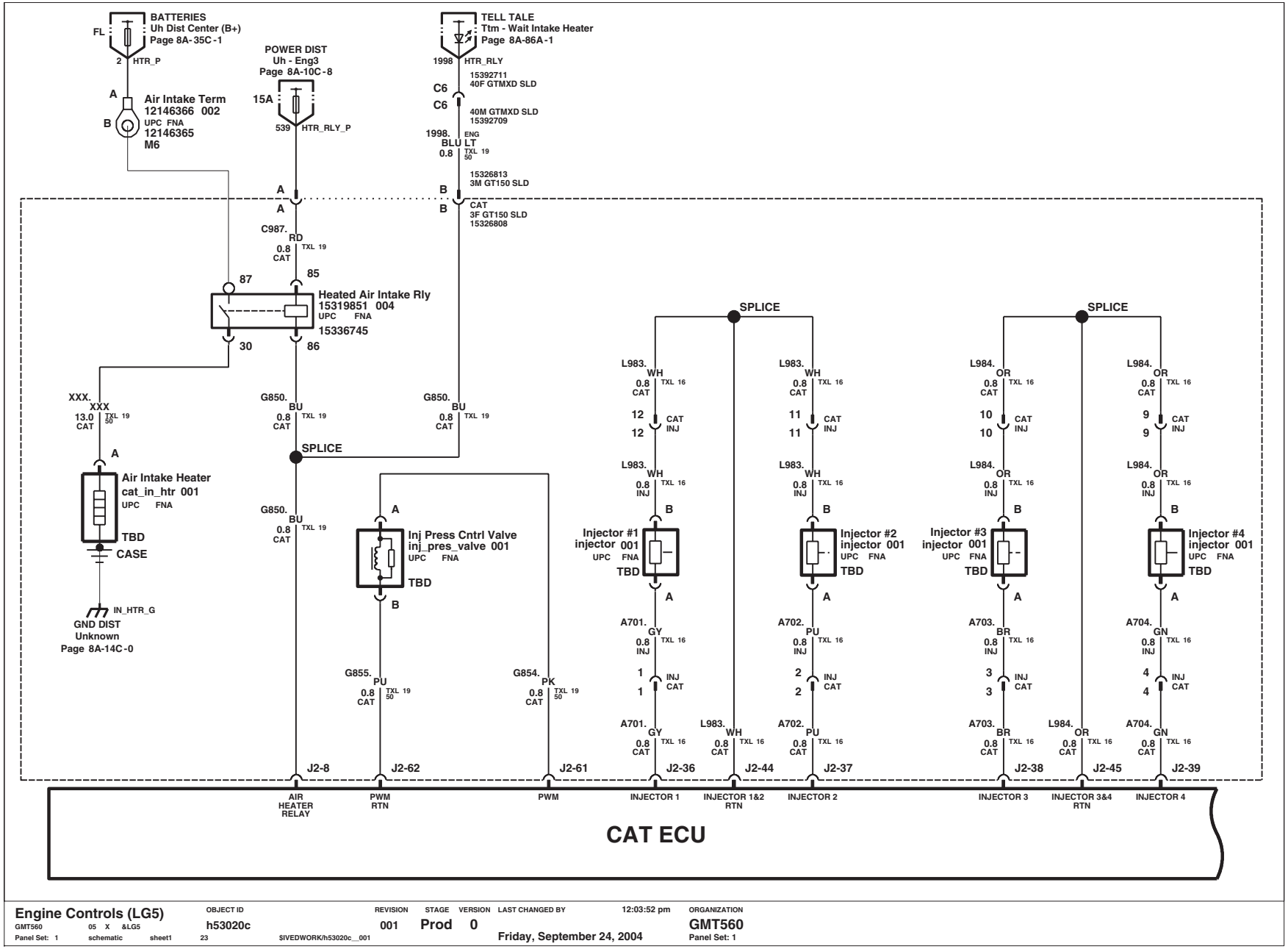
Engine Controls — (LG4) 7.8L-Diesel/Duramax

04 560 000	JG	Beta - Initial Creation	27AU01	001	04 560 1167	JG	For connector 15344628: pins A,B,C to 1,2,3	19FE02	001
					04 560 1179	JG	3-way Isuzu to Engine inline change	04MR02	001
					04i 560 1223	JG	LG4 - Fuse Rating Update	26AU02	001



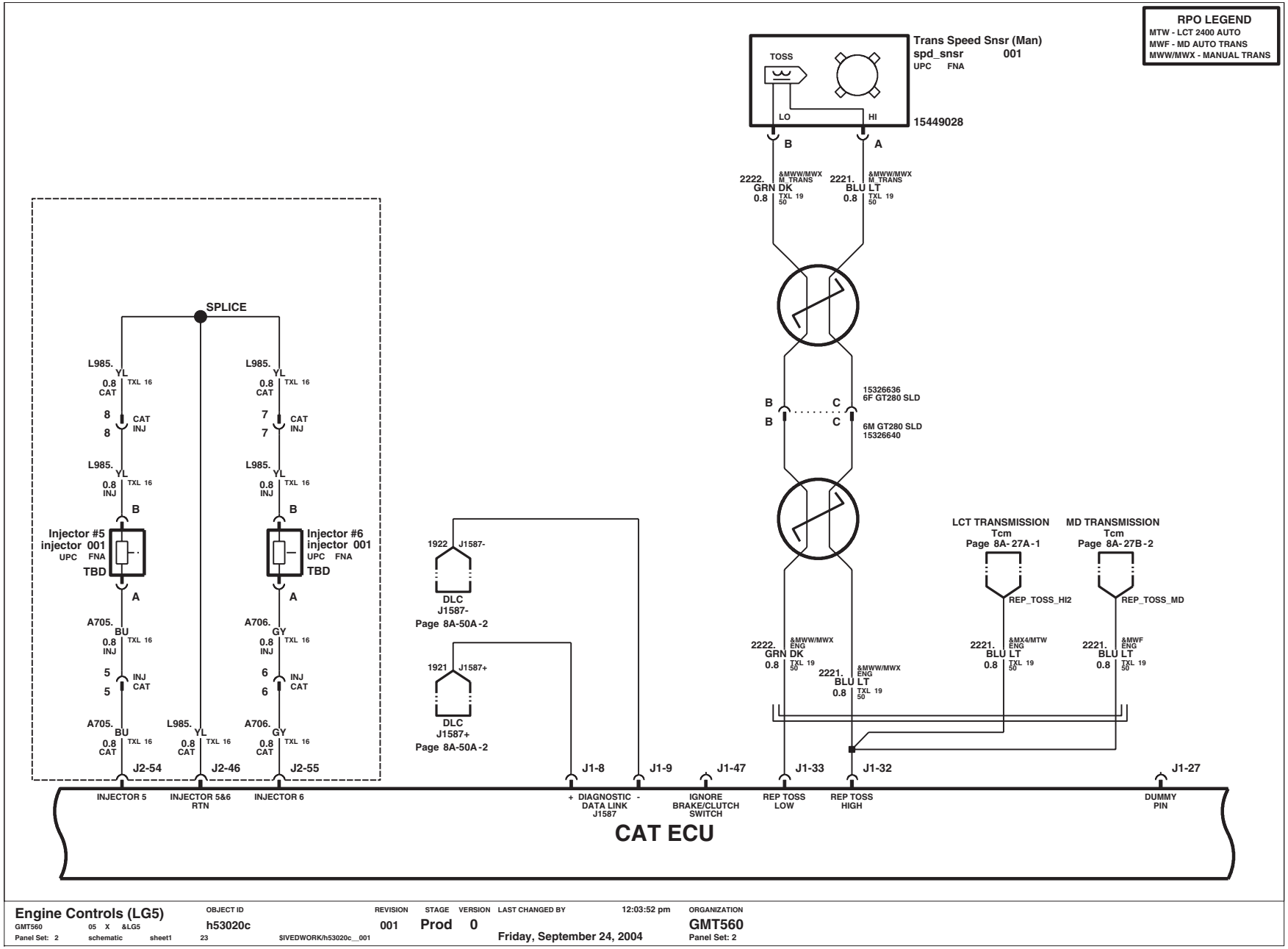
Engine Controls (LG4)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY	6:25:48 am	ORGANIZATION
GMT560 05 X &LG4	h53020b	001	Beta	0			GMT560
Panel Set: 12 schematic sheet1 8	$IVEDWORK/h53020b__001				Wednesday, October 6, 2004		Panel Set: 12

Engine Controls — (LG5) 7.2L-Diesel/CAT



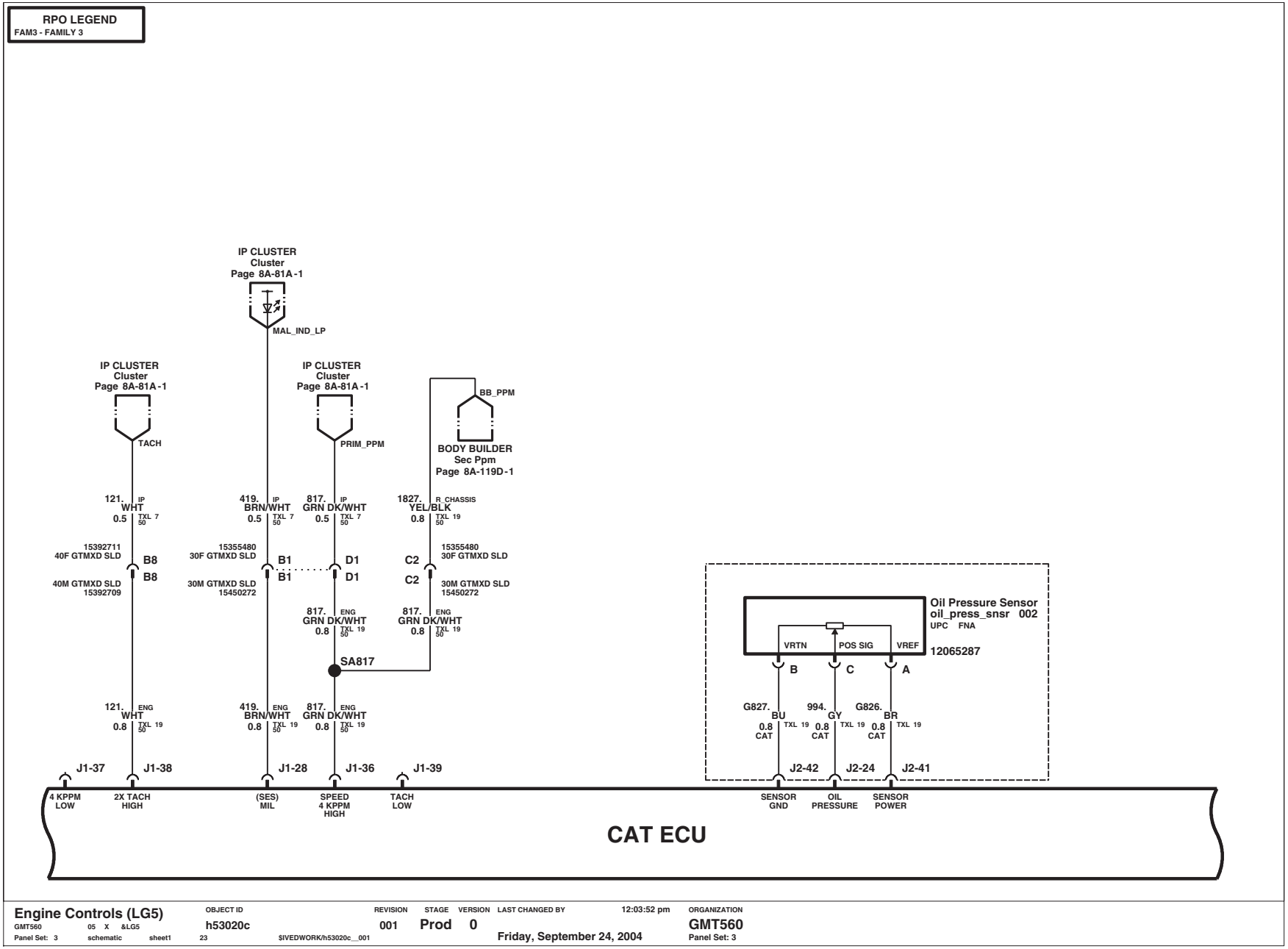
Engine Controls (LG5)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY		ORGANIZATION
GMT560 05 X &LG5	h53020c	001	Prod	0		12:03:52 pm	GMT560
Panel Set: 1 schematic sheet1 23	$IVEDWORK/h53020c__001				Friday, September 24, 2004		Panel Set: 1

Engine Controls — (LG5) 7.2L-Diesel/CAT



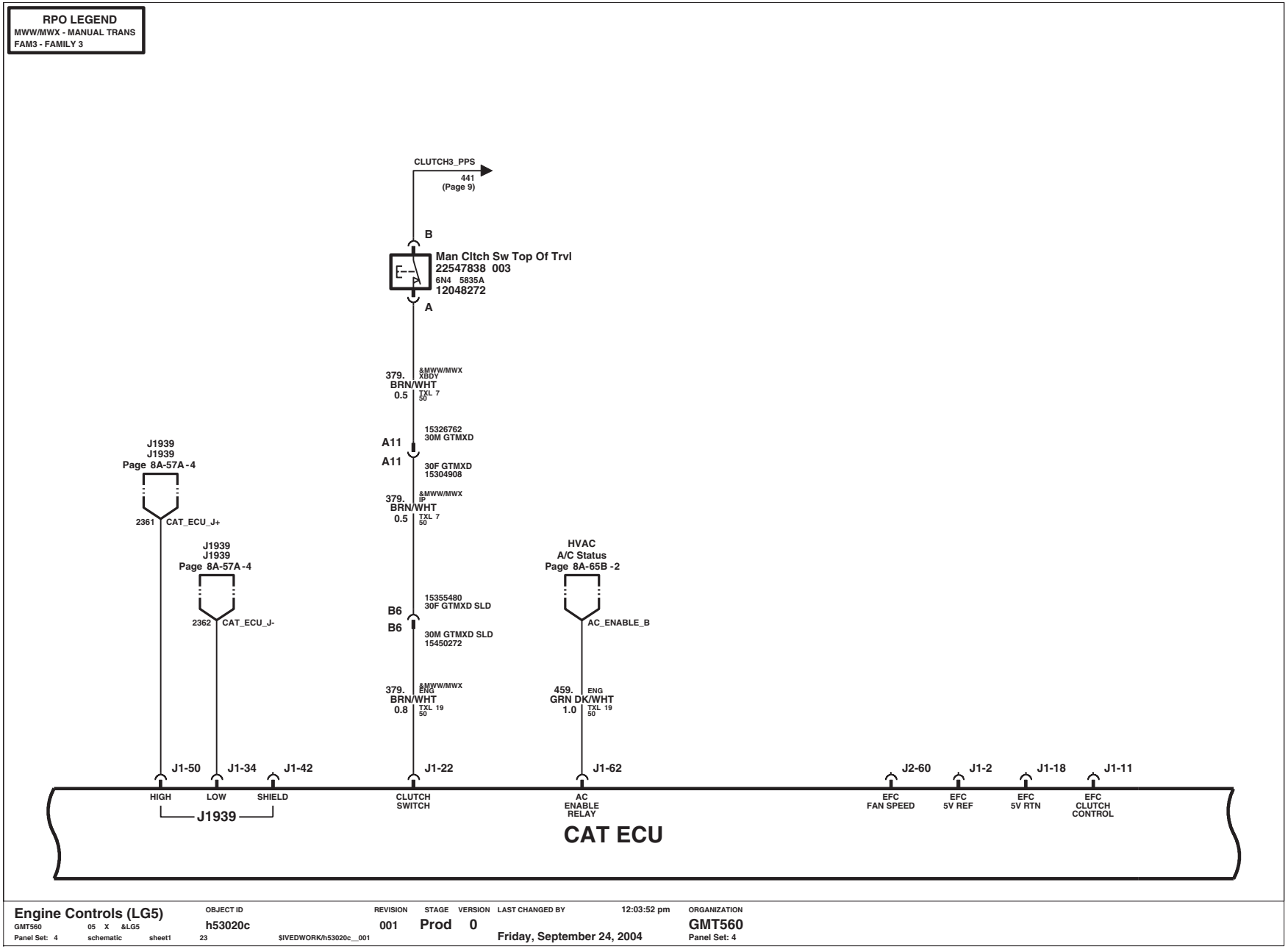
Engine Controls (LG5)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY	12:03:52 pm	ORGANIZATION
GMT560 05 X &LG5	h53020c	001	Prod	0			GMT560
Panel Set: 2 schematic sheet1 23	$IVEDWORK/h53020c__001				Friday, September 24, 2004		Panel Set: 2

Engine Controls — (LG5) 7.2L-Diesel/CAT

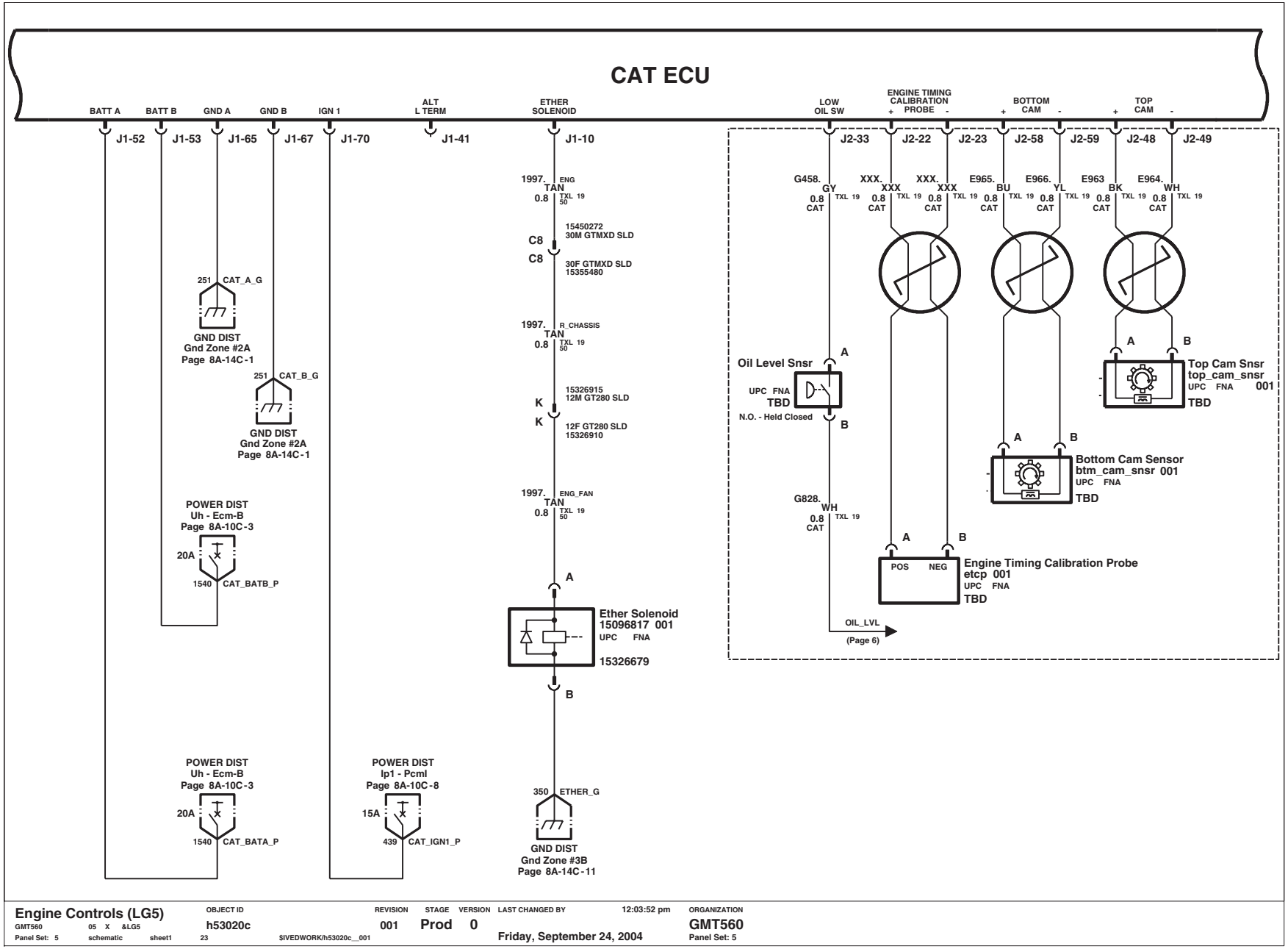


Engine Controls (LG5)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY	12:03:52 pm	ORGANIZATION
GMT560 05 X &LG5	h53020c	001	Prod	0			GMT560
Panel Set: 3 schematic sheet1 23	$IVEDWORK/h53020c__001				Friday, September 24, 2004		Panel Set: 3

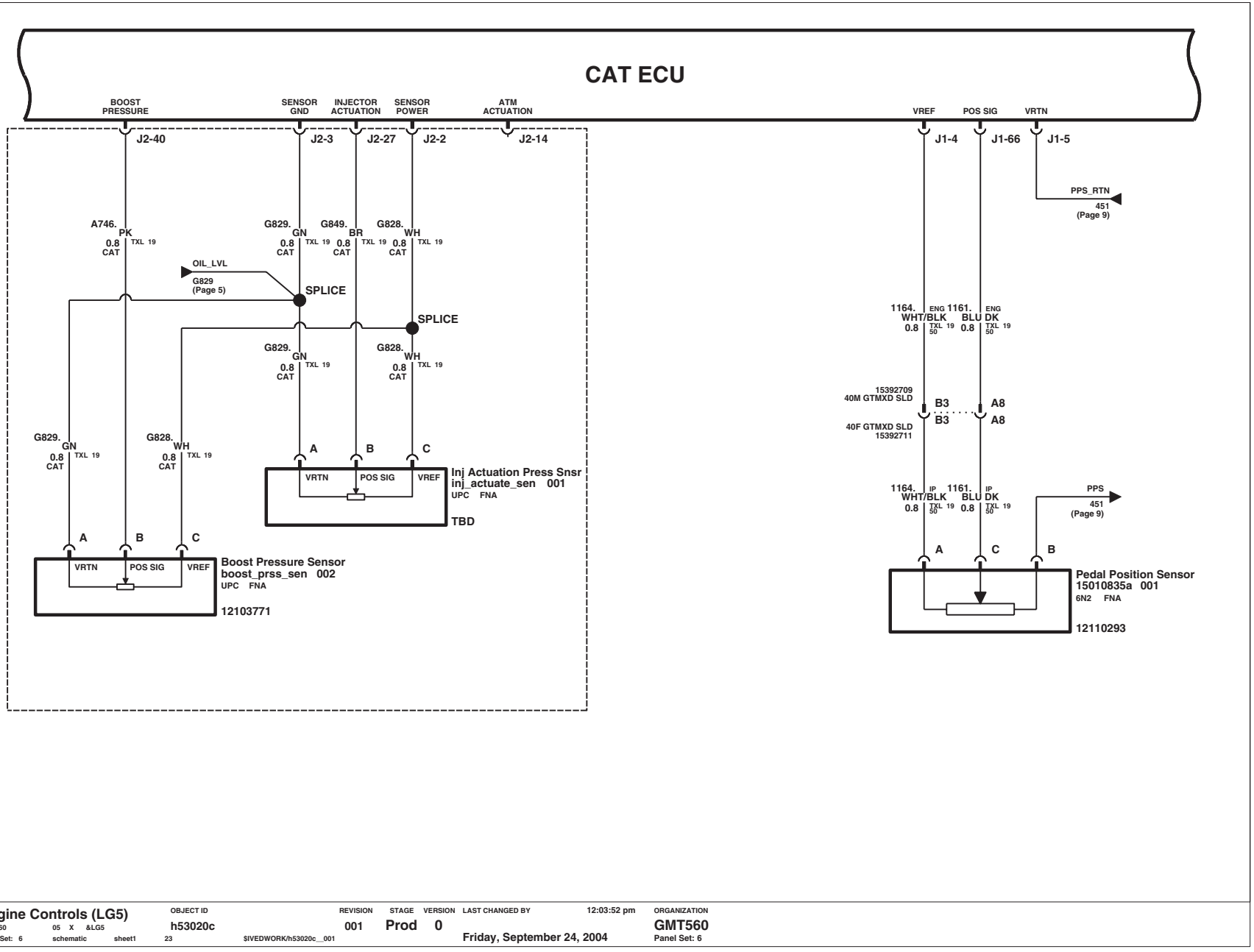
Engine Controls — (LG5) 7.2L-Diesel/CAT



Engine Controls — (LG5) 7.2L-Diesel/CAT

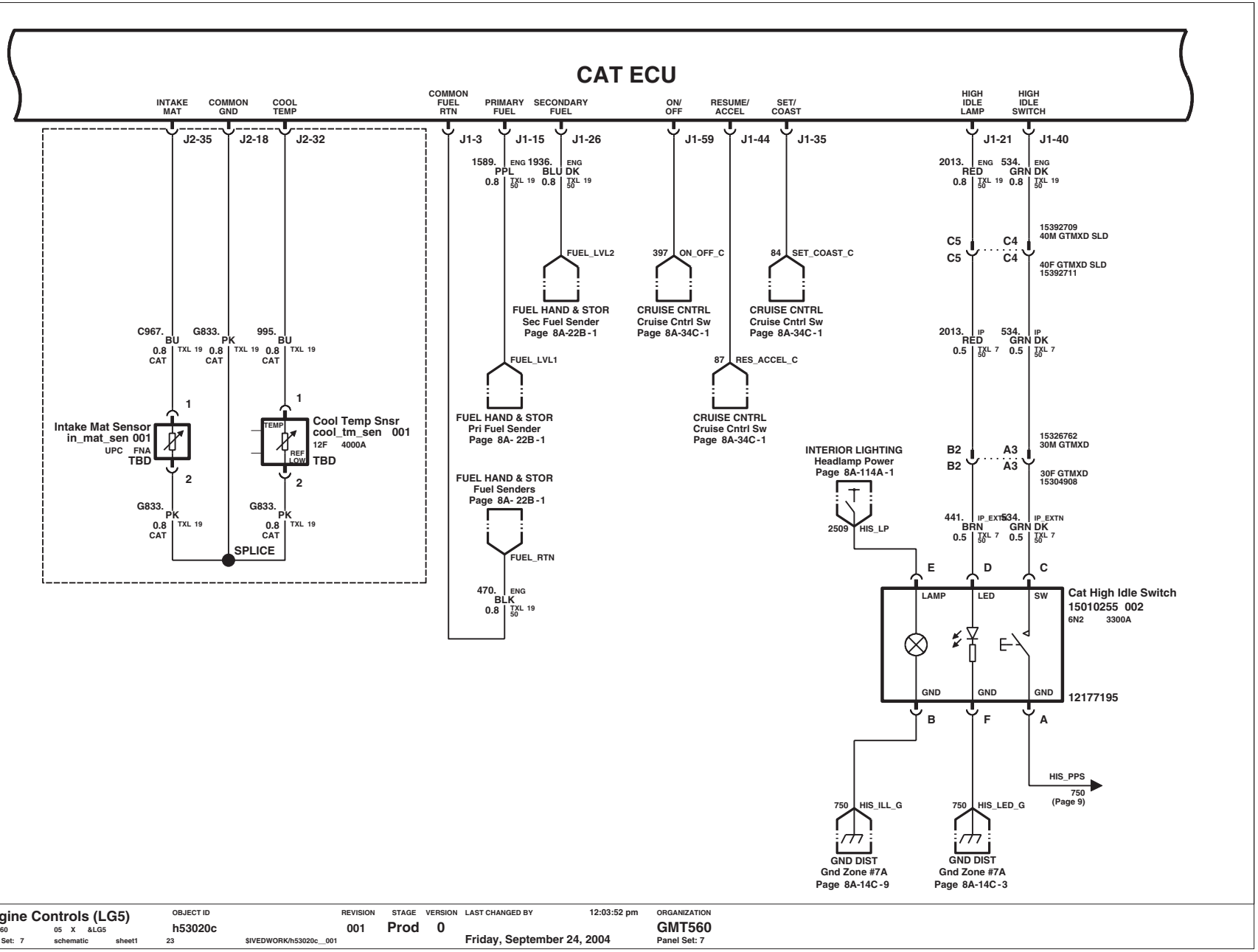


Engine Controls — (LG5) 7.2L-Diesel/CAT



Engine Controls (LG5)	OBJECT ID		REVISION	STAGE	VERSION	LAST CHANGED BY	12:03:52 pm	ORGANIZATION
GMT560 05 X &LG5	**h53020c**		**001**	**Prod**	**0**			**GMT560**
Panel Set: 6 schematic sheet1 23	$IVEDWORK/h53020c__001					**Friday, September 24, 2004**		Panel Set: 6

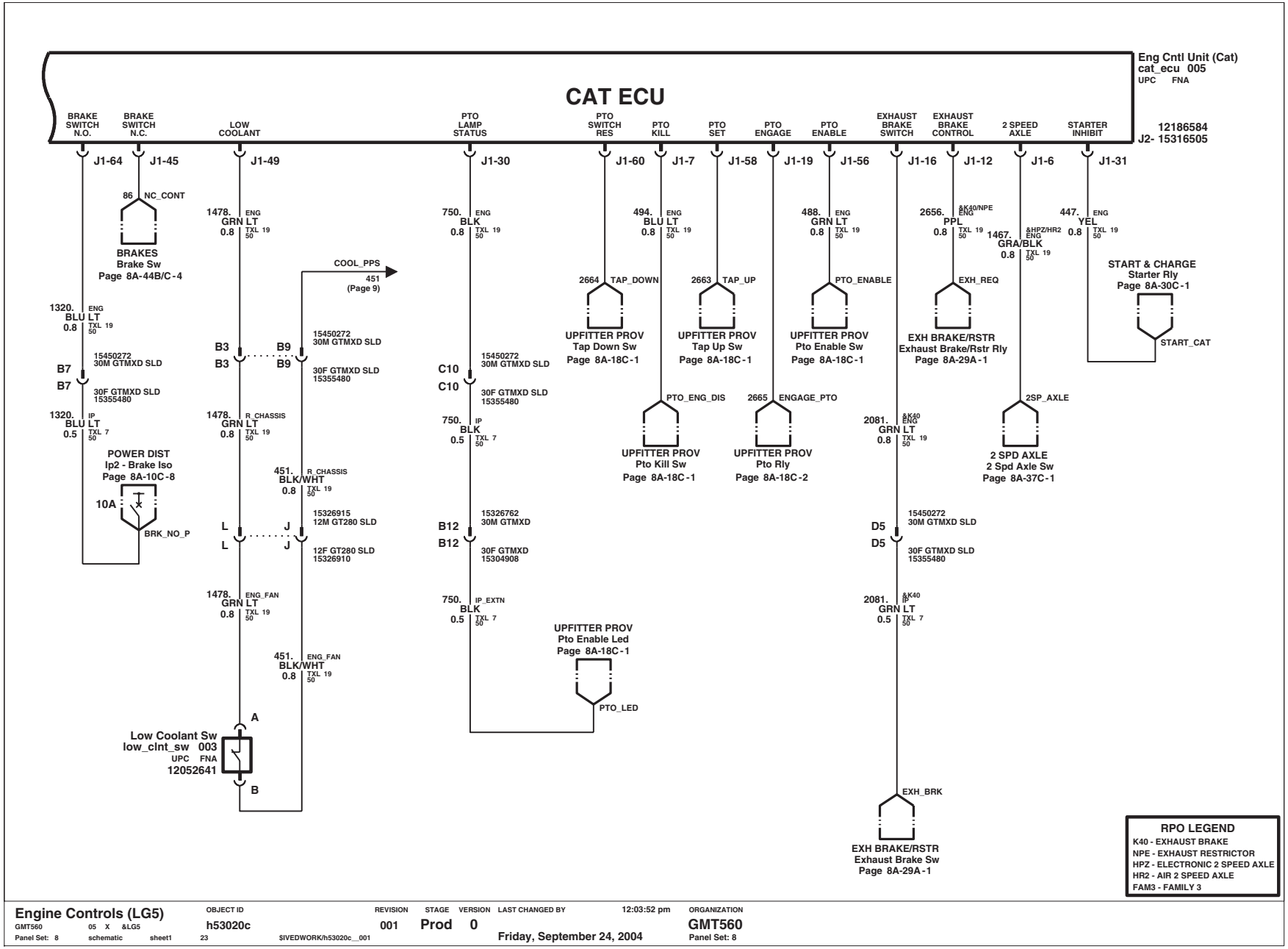
Engine Controls — (LG5) 7.2L-Diesel/CAT



Engine Controls (LG5)
GMT560 05 X &LG5 Panel Set: 7 schematic sheet1 23

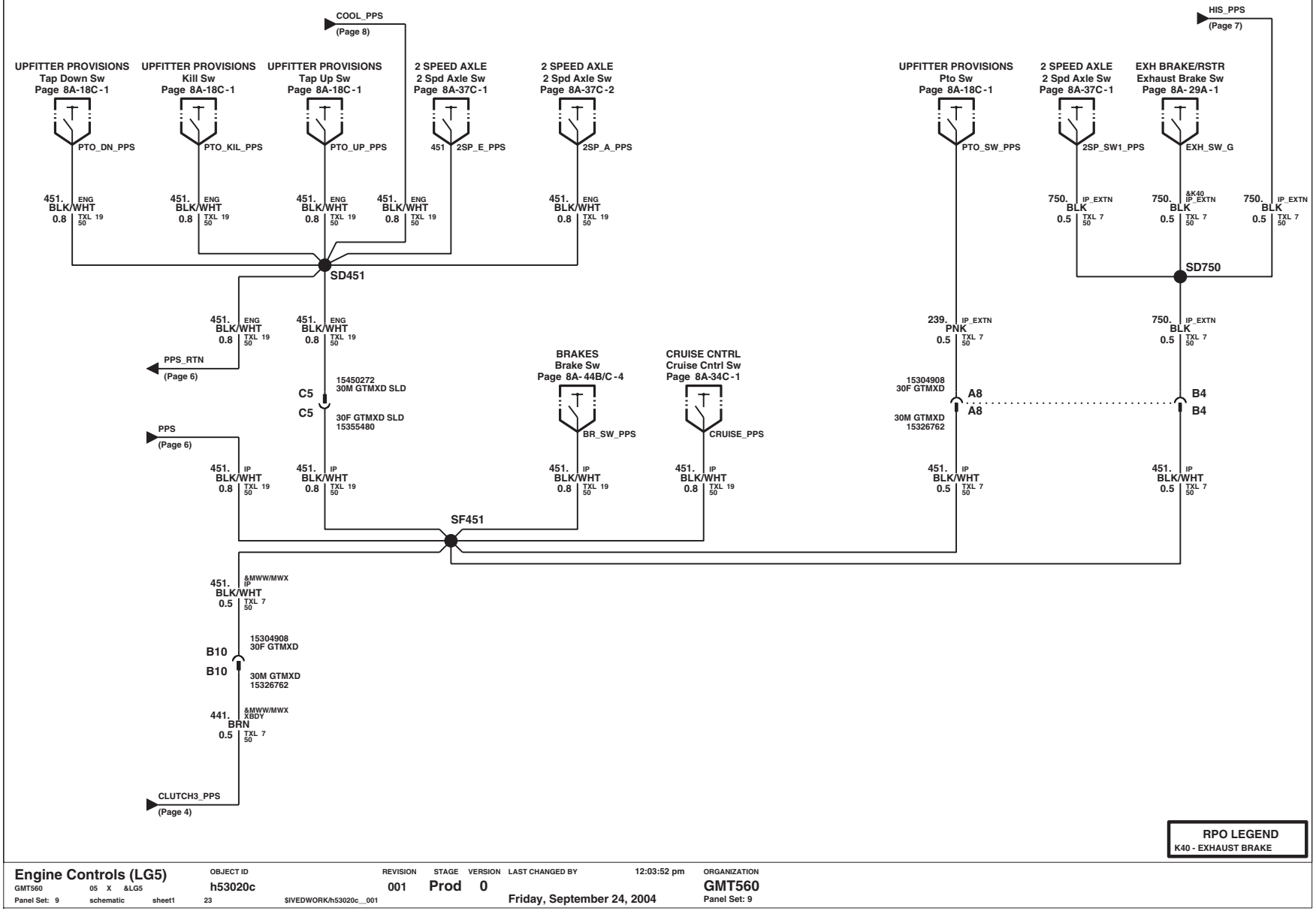
OBJECT ID: h53020c
REVISION: 001
STAGE: Prod
VERSION: 0
LAST CHANGED BY: $IVEDWORK/h53020c__001
12:03:52 pm
Friday, September 24, 2004
ORGANIZATION: GMT560
Panel Set: 7

Engine Controls — (LG5) 7.2L-Diesel/CAT

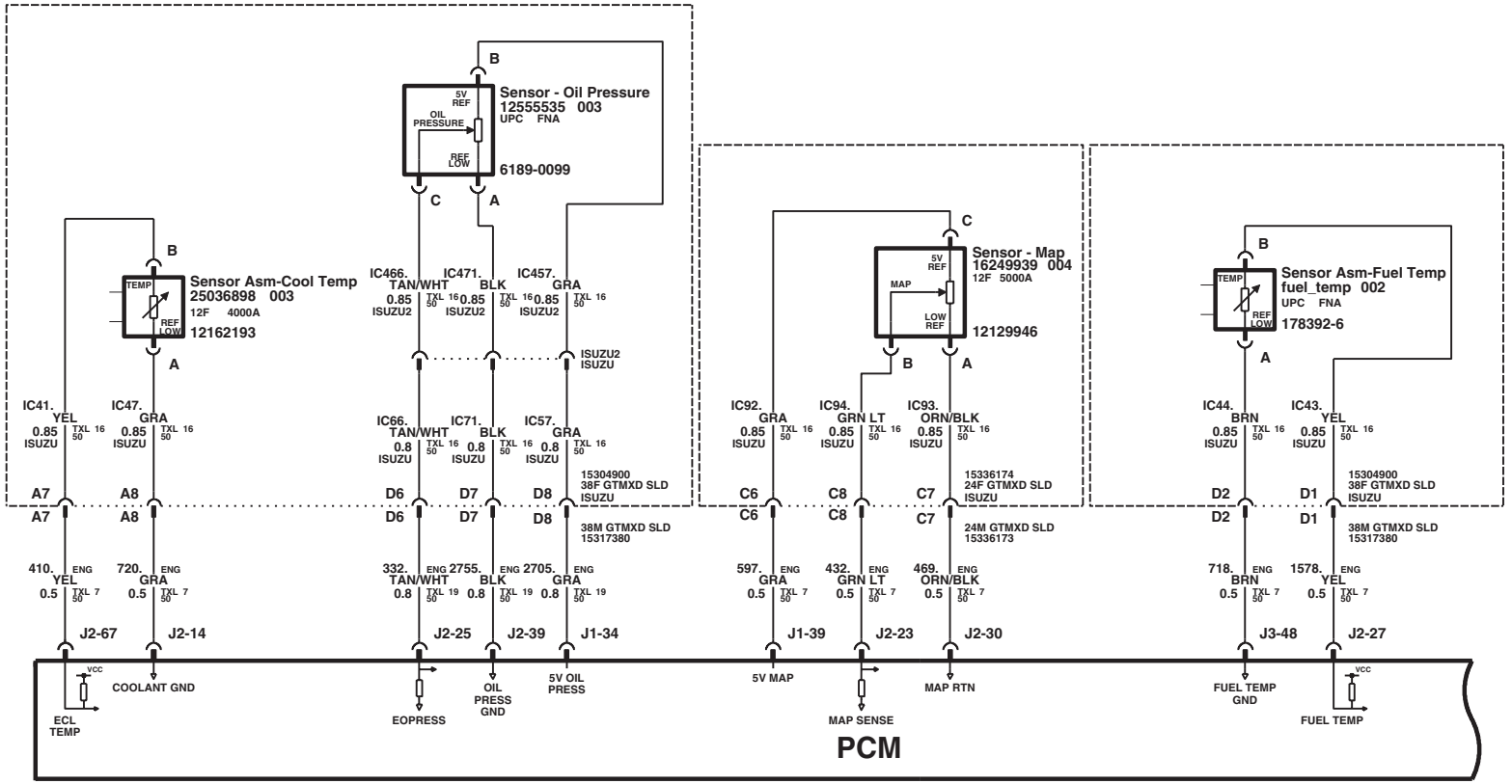


Engine Controls — (LG5) 7.2L-Diesel/CAT

03 560 000	JG	PILOT B - INITIAL CREATION	06OC00	001	03 560 1062	JG	Update Ether Sol, Pin Label Update	25JL01	001
03 560 794	JG	ECU - Pinout Change J1-68 to J1-19	09SE00	001	03 560 1149	JG	MTX replaces MTW (Fam 2)	19DE01	001
03 560 805	JG	Remove School Bus	27OC00	001	03 560 1106	JG	900 Circuit Number Updates	07FE02	001
03 560 992	JG	Update Telltale Control	08MR01	001	03 560 1247	JG	Ether Connector Change 15326801 to 15326679	19JN02	001

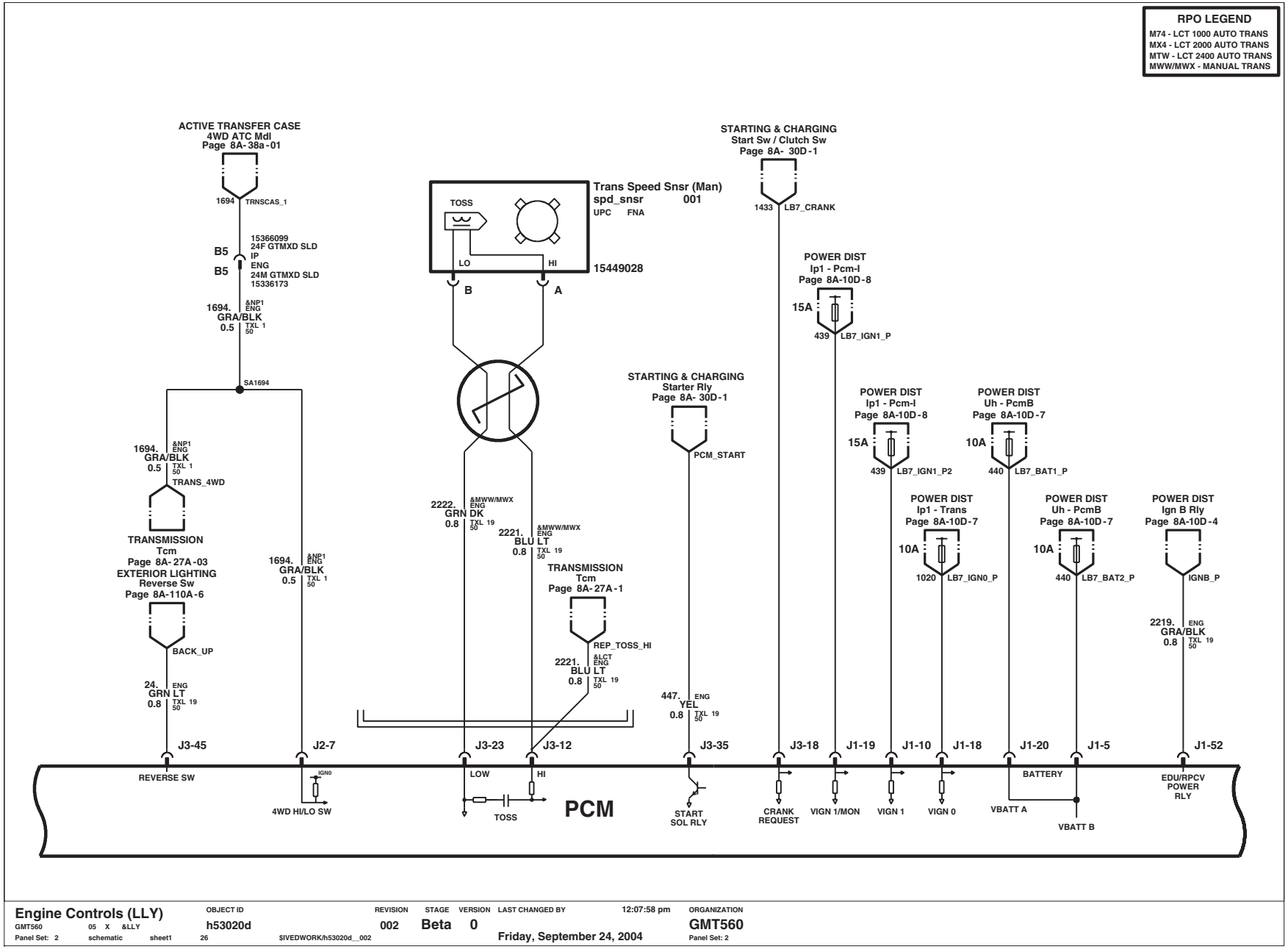


Engine Controls — (LLY) 6.6L-Diesel/Duramax



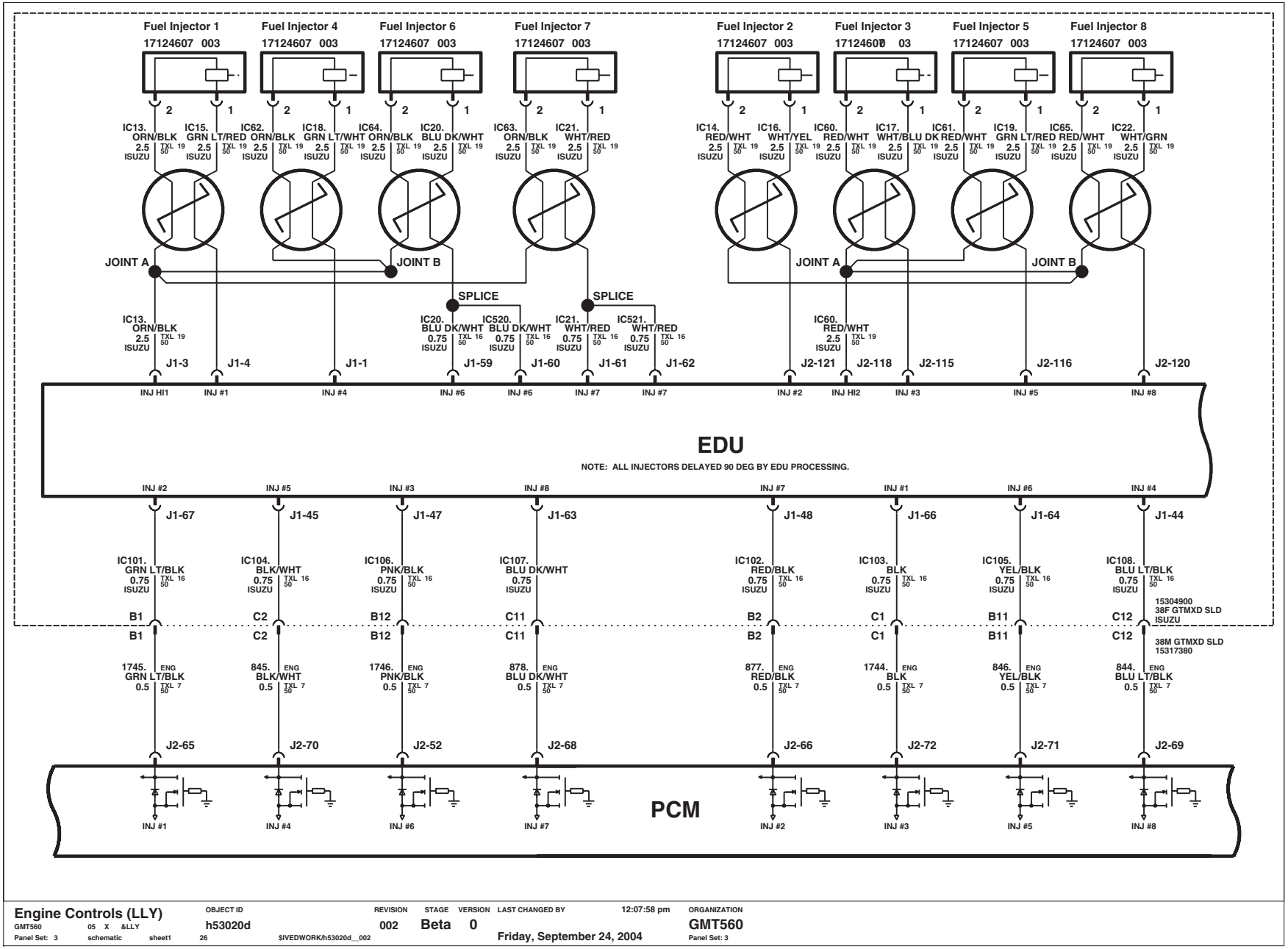
Engine Controls (LLY)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY		ORGANIZATION
GMT560 05 X &LLY	h53020d	002	Beta	0		12:07:58 pm	GMT560
Panel Set: 1 schematic sheet1 26	$IVEDWORK/h53020d__002				Friday, September 24, 2004		Panel Set: 1

Engine Controls — (LLY) 6.6L-Diesel/Duramax

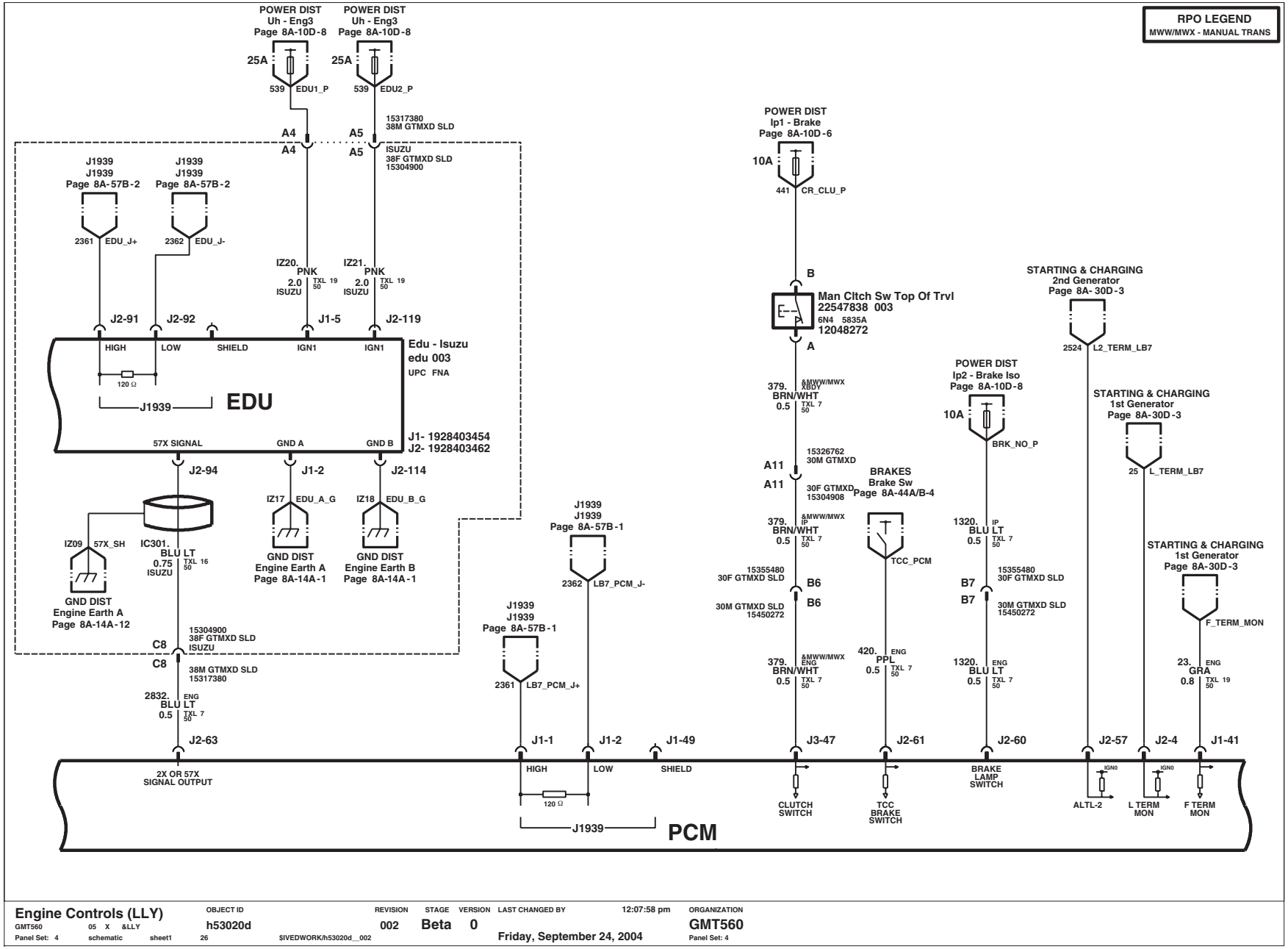


Engine Controls (LLY)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY	12:07:58 pm	ORGANIZATION
GMT560 05 X &LLY	h53020d	002	Beta	0			GMT560
Panel Set: 2 schematic sheet1 26	$IVEDWORK/h53020d__002				Friday, September 24, 2004		Panel Set: 2

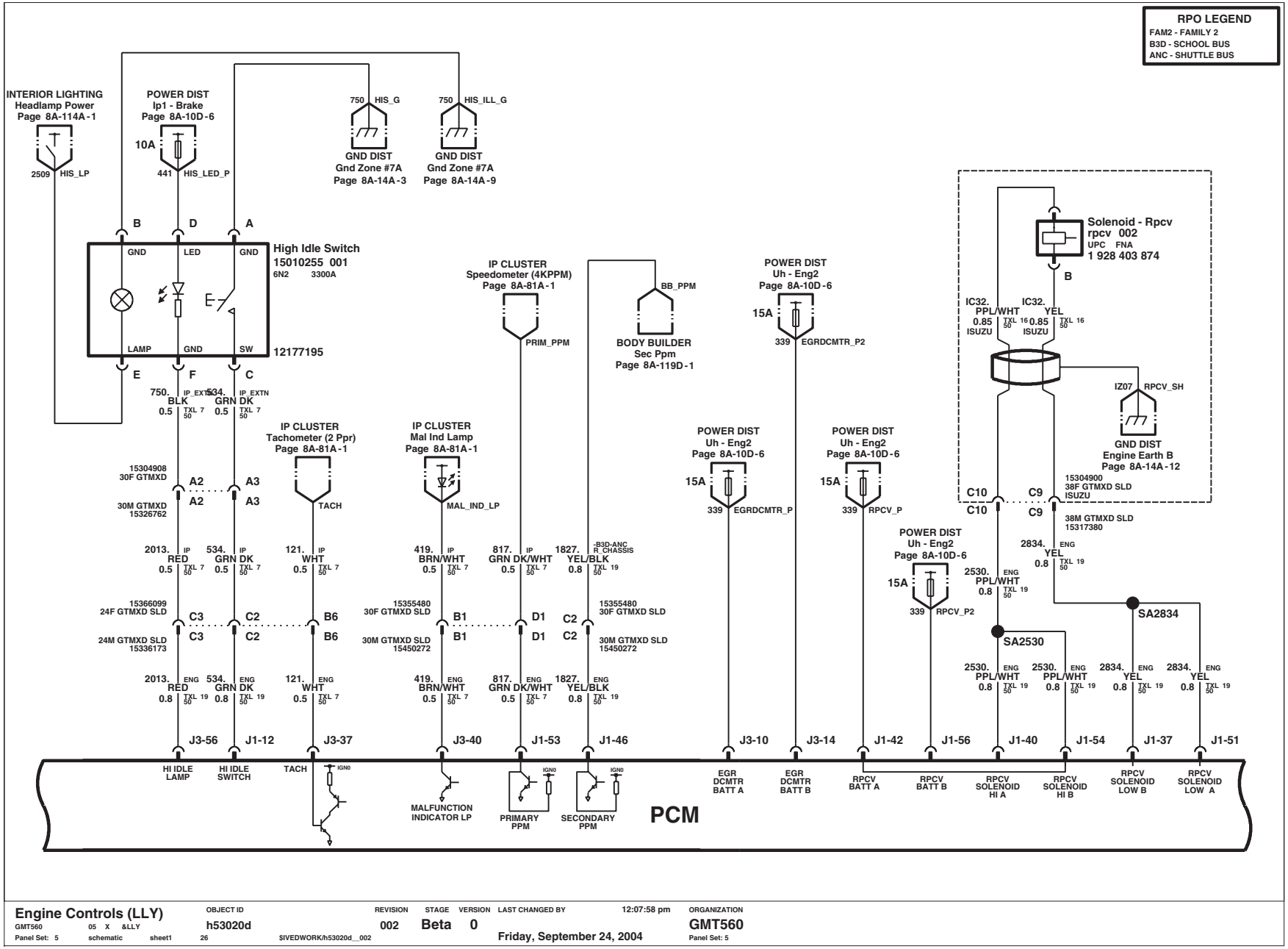
Engine Controls — (LLY) 6.6L-Diesel/Duramax



Engine Controls — (LLY) 6.6L-Diesel/Duramax



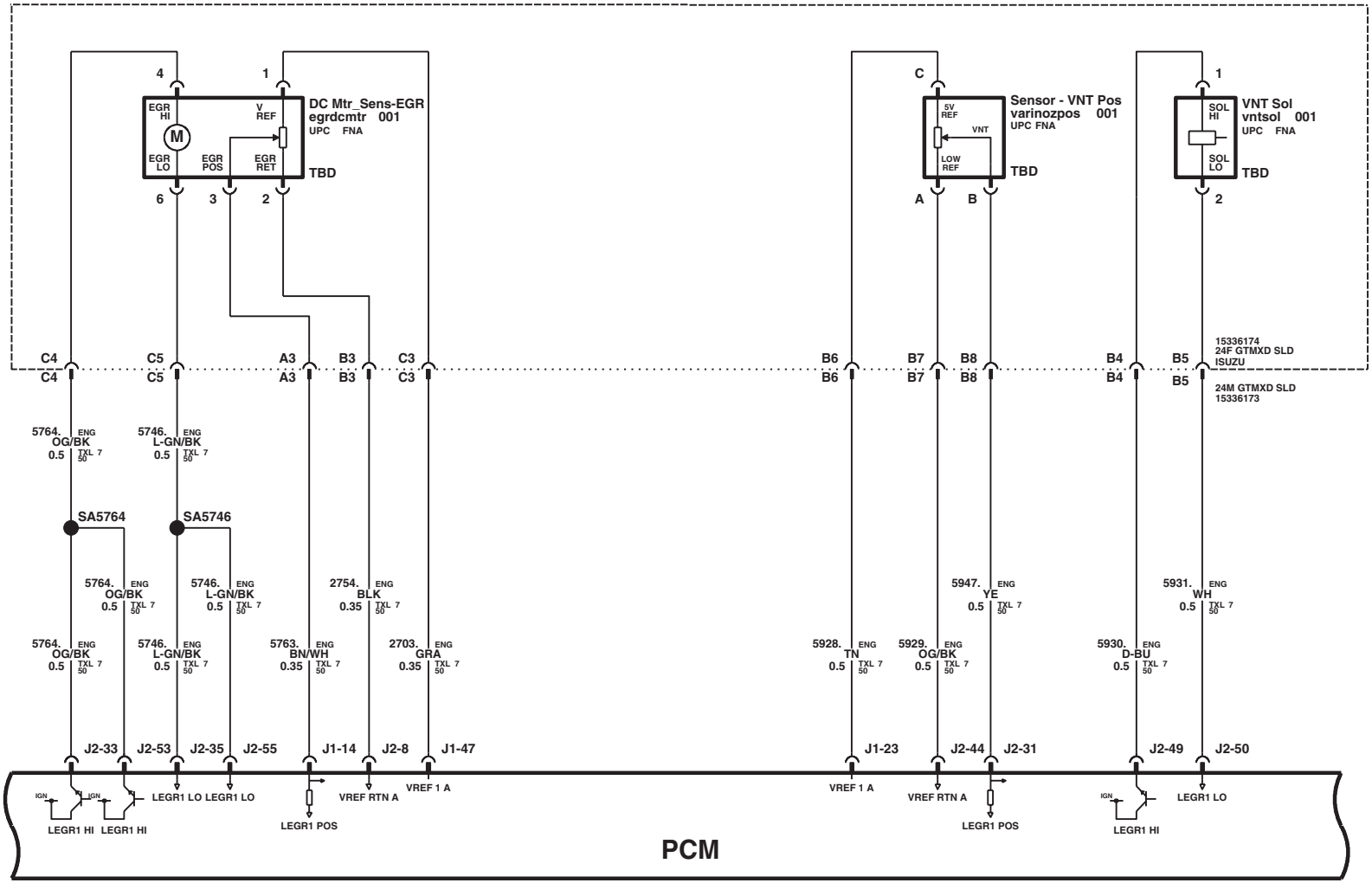
Engine Controls — (LLY) 6.6L-Diesel/Duramax



Engine Controls (LLY)
GMT560 05 X &LLY Panel Set: 5 schematic sheet1 26

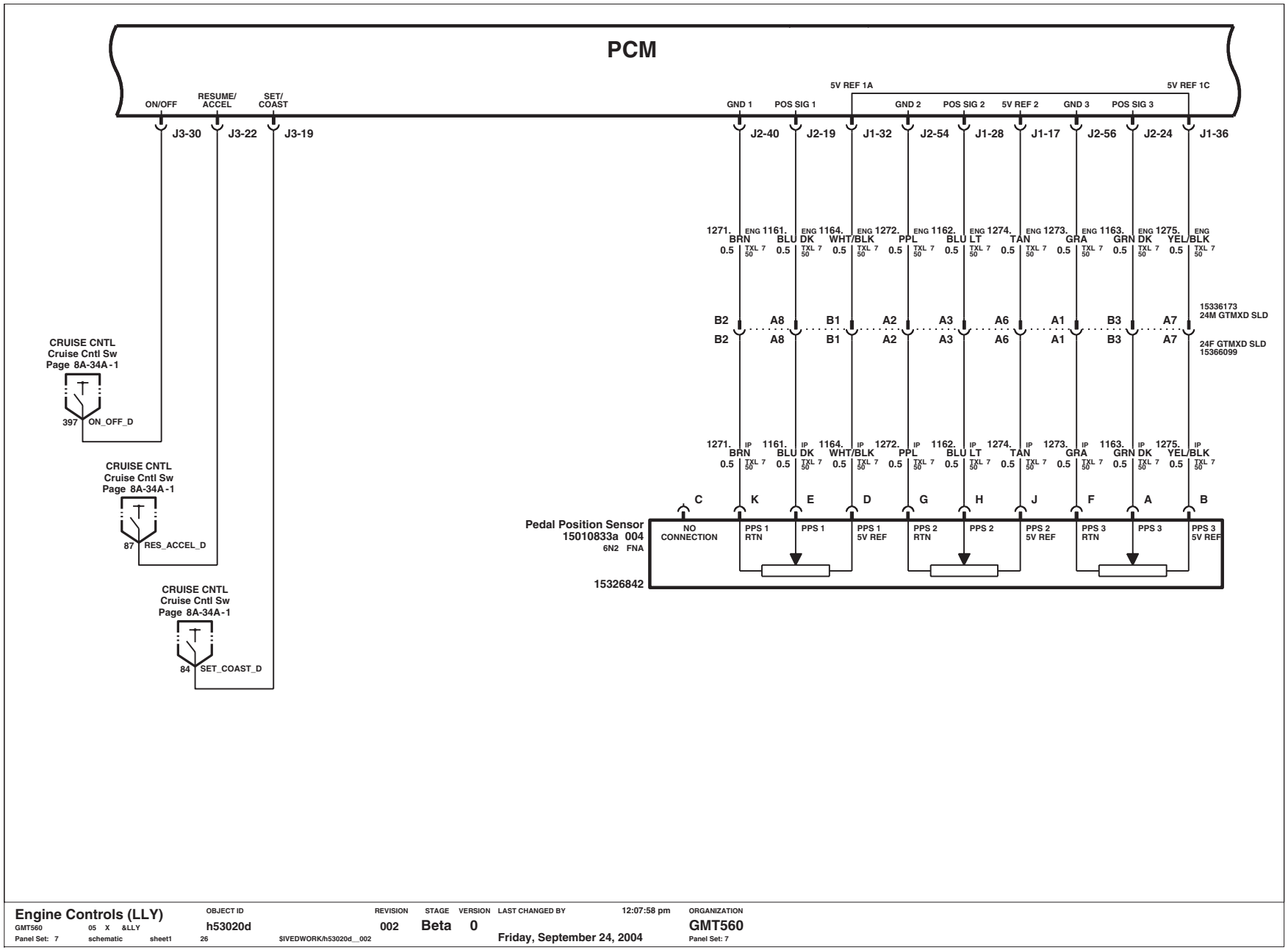
OBJECT ID h53020d
REVISION 002
STAGE Beta
VERSION 0
LAST CHANGED BY $IVEDWORK/h53020d__002
12:07:58 pm Friday, September 24, 2004
ORGANIZATION GMT560 Panel Set: 5

Engine Controls — (LLY) 6.6L-Diesel/Duramax



Engine Controls (LLY)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY	12:07:58 pm	ORGANIZATION
GMT560 05 X &LLY	h53020d	002	Beta	0			GMT560
Panel Set: 6 schematic sheet1 26	$IVEDWORK/h53020d__002				Friday, September 24, 2004		Panel Set: 6

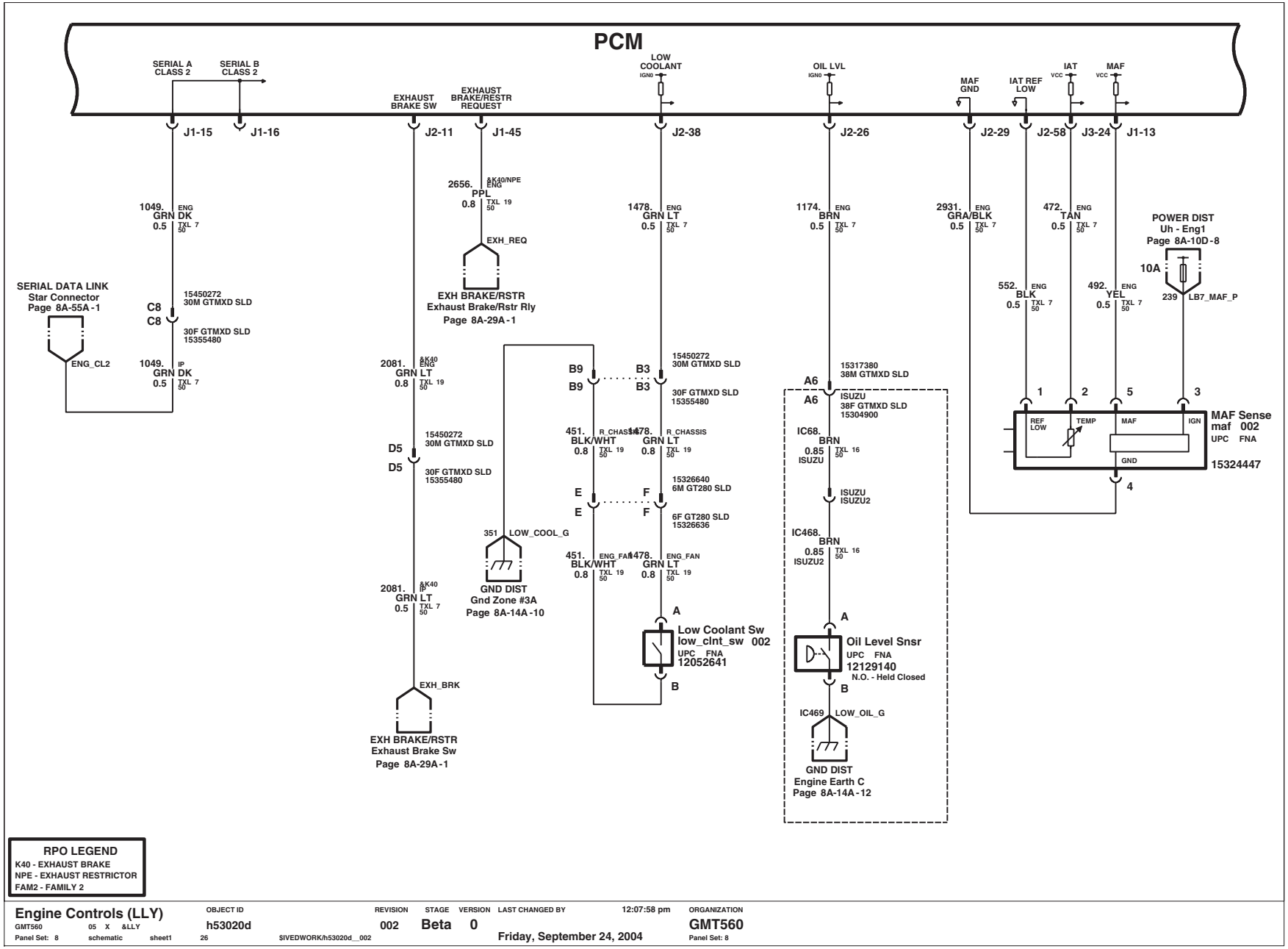
Engine Controls — (LLY) 6.6L-Diesel/Duramax



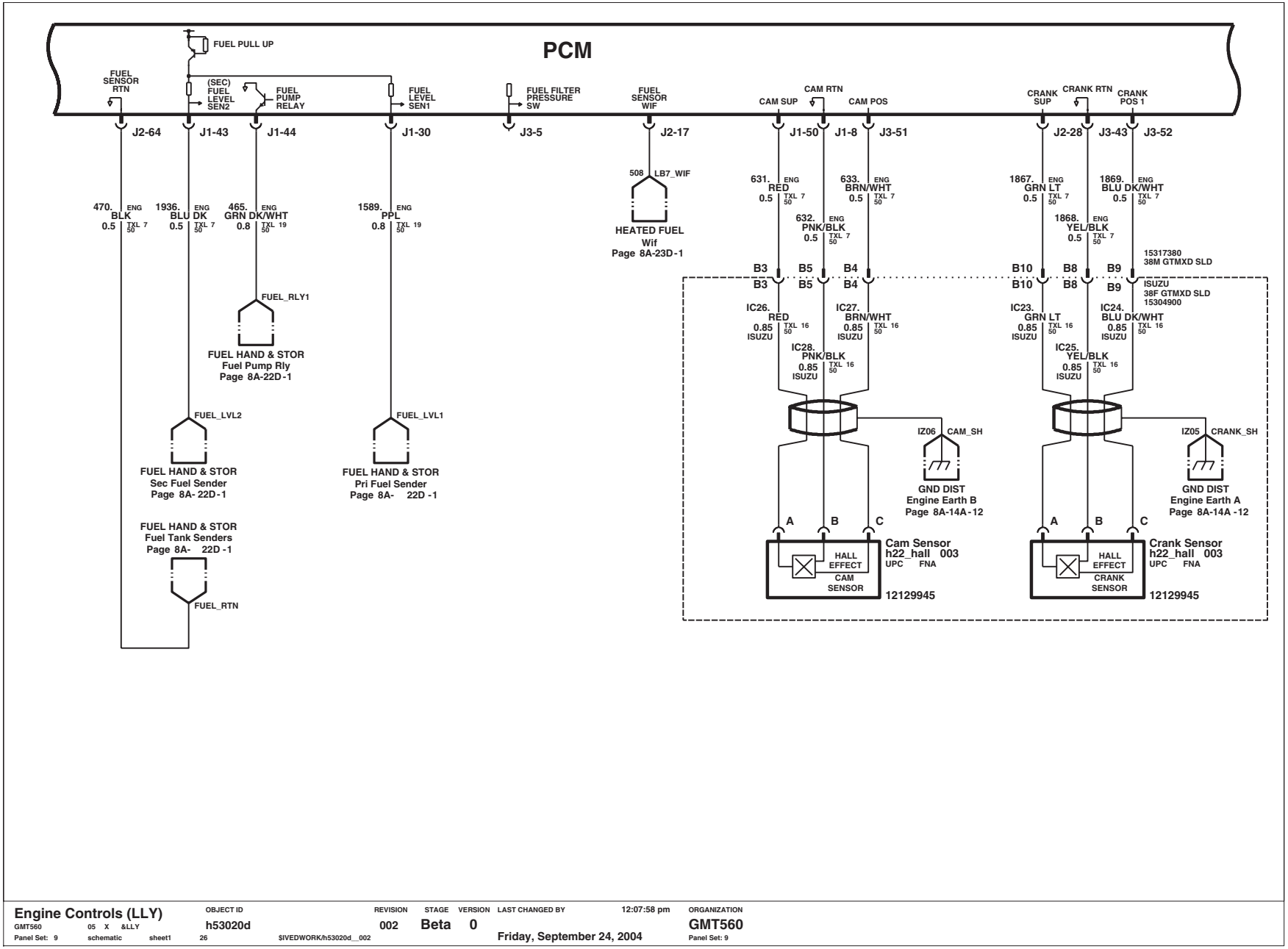
Engine Controls (LLY)
GMT560 05 X &LLY
Panel Set: 7 schematic sheet1 26

OBJECT ID h53020d
REVISION 002
STAGE Beta
VERSION 0
LAST CHANGED BY
12:07:58 pm Friday, September 24, 2004
ORGANIZATION GMT560
Panel Set: 7
$IVEDWORK/h53020d__002

Engine Controls — (LLY) 6.6L-Diesel/Duramax

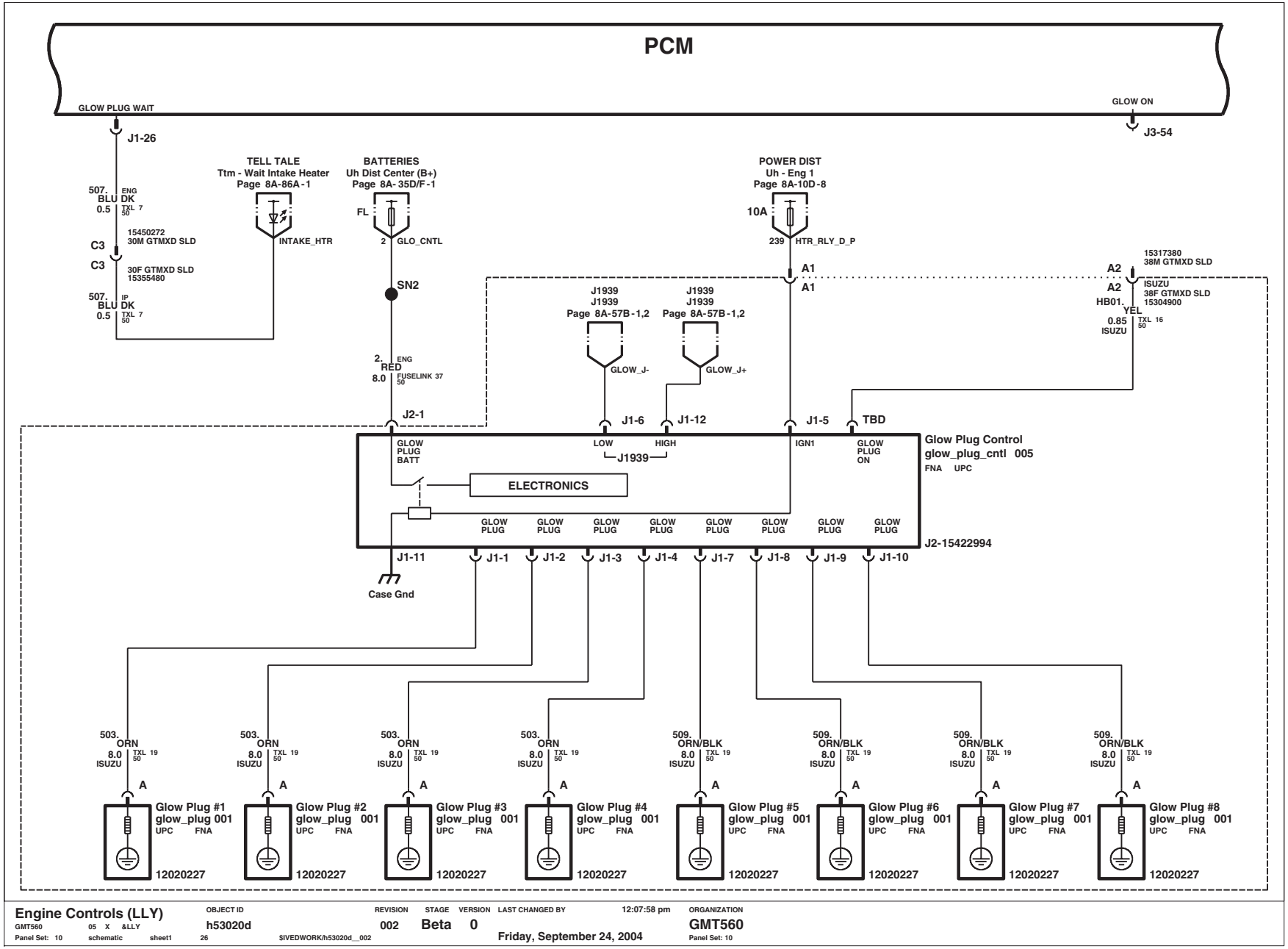


Engine Controls — (LLY) 6.6L-Diesel/Duramax

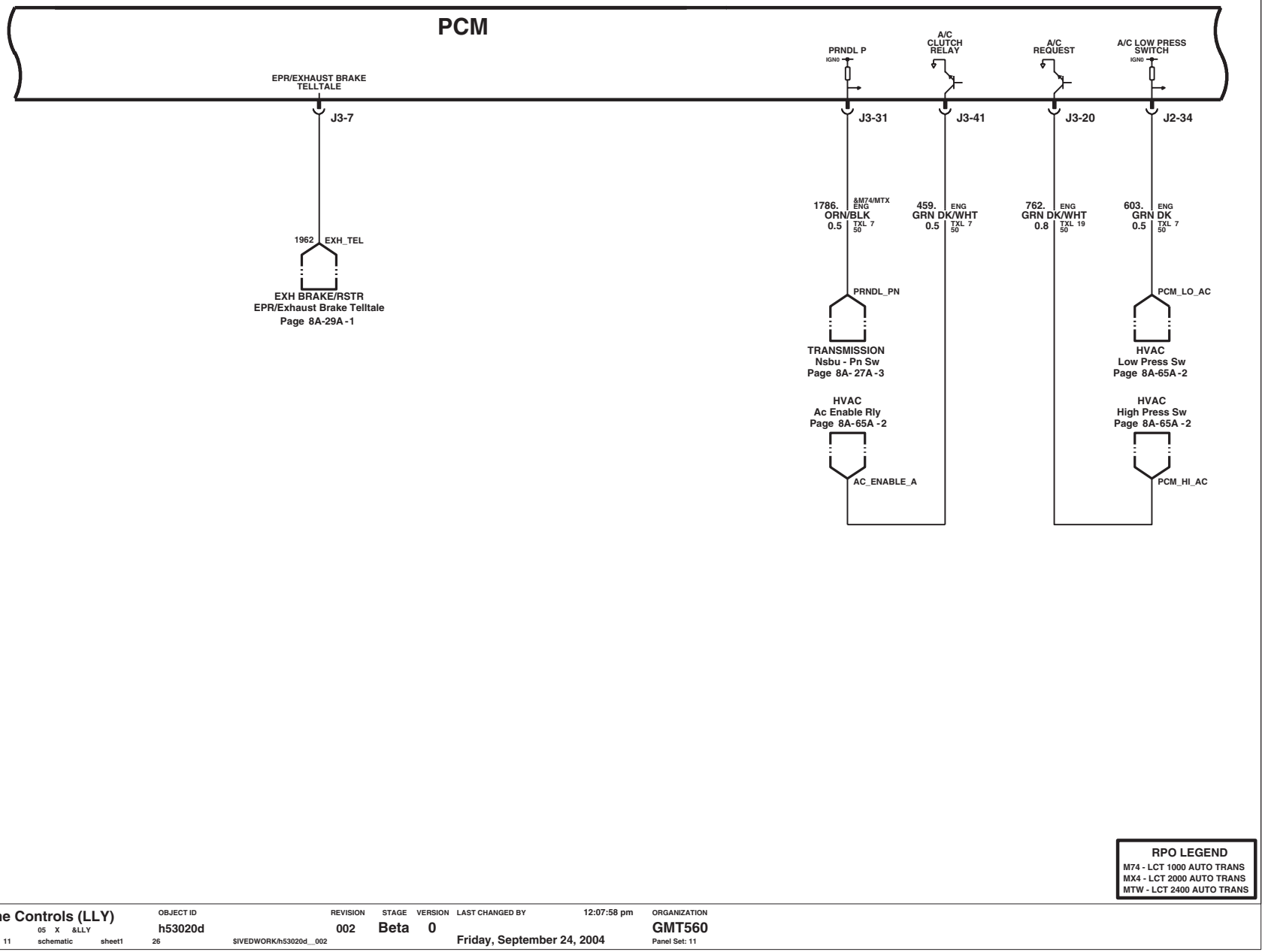


Engine Controls (LLY)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY	12:07:58 pm	ORGANIZATION
GMT560 05 X &LLY	h53020d	002	Beta	0			GMT560
Panel Set: 9 schematic sheet1 26	$IVEDWORK/h53020d__002				Friday, September 24, 2004		Panel Set: 9

Engine Controls — (LLY) 6.6L-Diesel/Duramax



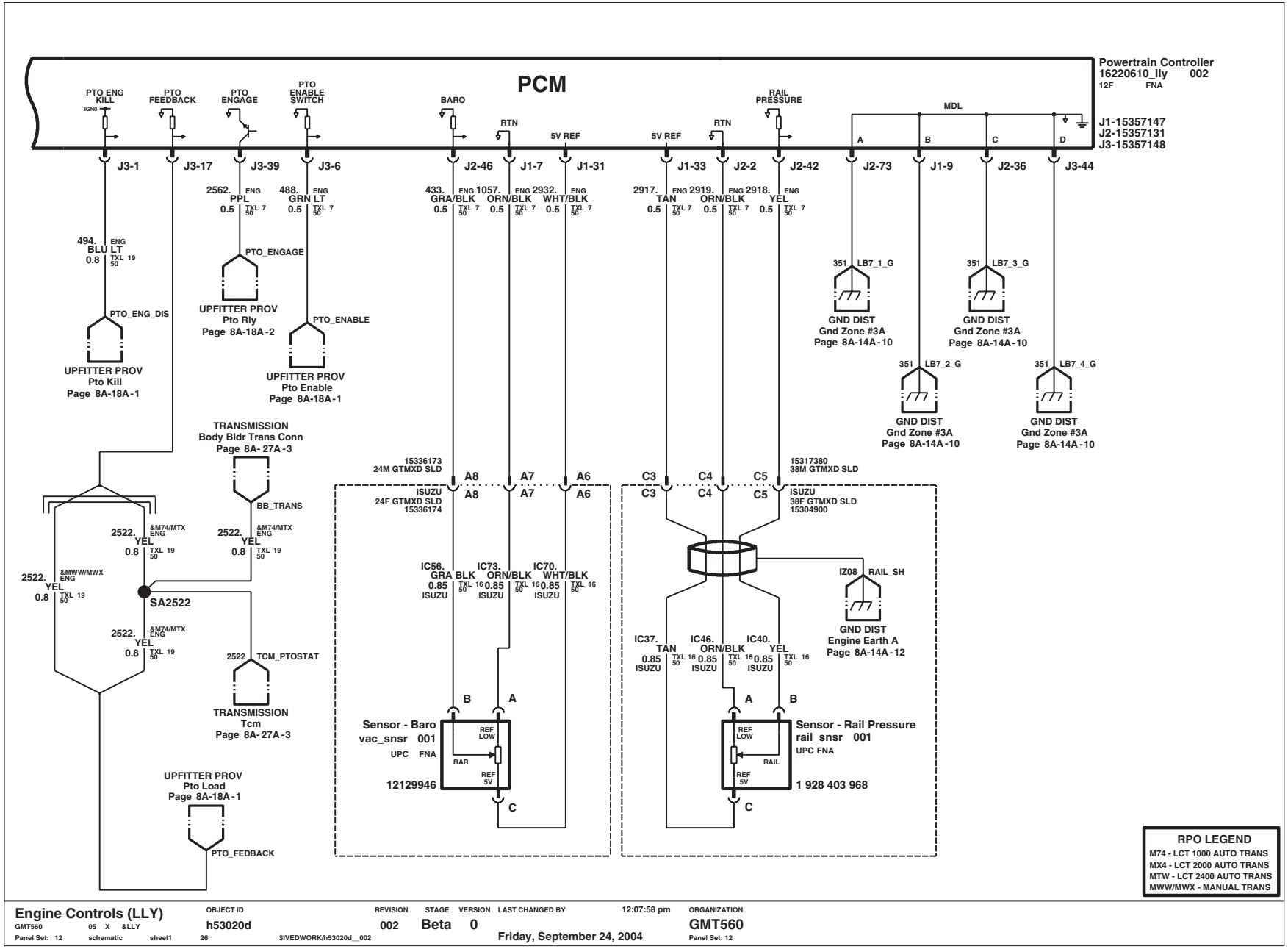
Engine Controls — (LLY) 6.6L-Diesel/Duramax



Engine Controls (LLY)
GMT560 05 X &LLY
Panel Set: 11 schematic sheet1 26

OBJECT ID h53020d
REVISION 002
STAGE Beta
VERSION 0
LAST CHANGED BY
$IVEDWORK/h53020d__002
12:07:58 pm
Friday, September 24, 2004
ORGANIZATION GMT560
Panel Set: 11

Engine Controls — (LLY) 6.6L-Diesel/Duramax



Engine Controls — (LLY) 6.6L-Diesel/Duramax

GMTG/ISUZU INLINE CHART

I1 15317380 GMTG (MALE)
15304900 ISUZU (FEMALE)

CAVITY	FUNCTION	CIRCUIT NO.
A1	INTAKE HEATER RELAY IGN 1	239
A2	GLOW ON	505
A3	n/c	n/c
A4	FUEL INJECTOR FEED (EDU)	539
A5	FUEL INJECTOR FEED (EDU)	539
A6	LOW OIL SENSOR - SIGNAL	1174
A7	COOLANT TEMP SNSR - SIG	410
A8	COOLANT TEMP - 5V RTN	720
B1	INJECTOR #2	1745
B2	INJECTOR #7	877
B3	VDEPSB - CAM	631
B4	CAM - SIGNAL	633
B5	DEPSGNDB - CAM	632
B6	n/c	n/c
B7	n/c	n/c
B8	VDEPSGNDA - CRANK	1868
B9	CRANK - SIGNAL	1869
B10	VDEPSA - CRANK	1867
B11	INJECTOR #6	846
B12	INJECTOR #3	1746
C1	INJECTOR #1	1744
C2	INJECTOR #5	845
C3	RAIL PRESSURE - 5V	2917
C4	RAIL PRESSURE - RTN	2919
C5	RAIL PRESSURE - SIGNAL	2918
C6	FUEL HEATER - FEED	2677
C7	n/c	n/c
C8	57X OUT	2832
C9	RPCV - LO	2834
C10	RPCV - HI	2530
C11	INJECTOR #8	878
C12	INJECTOR #4	844
D1	FUEL TEMPERATURE	1578
D2	FUEL TEMP - GROUND	718
D3	WIF SENSOR	508
D6	OIL PRESSURE	332
D7	OIL PRESSURE - RTN	407
D8	OIL PRESSURE 5V - REF	705

C6: See page 023d
D3: See page 023d

I2 15336173 GMTG (MALE)
15336174 ISUZU (FEMALE)

CAVITY	FUNCTION	CIRCUIT NO.
A1	n/c	n/c
A2	n/c	n/c
A3	EGR POSITION F/B	5763
A4	n/c	n/c
A5	n/c	n/c
A6	BARO - 5V	2932
A7	BARO - RTN	1057
A8	BARO - SIGNAL	433
B1	CAN LINK LO (EDU)	2362
B2	n/c	n/c
B3	EGR POSITION RTN	2754
B4	VNT SOLENOID HI	5774
B5	VNT SOLENOID LO	5773
B6	VNT POSITION 5V	5776
B7	VNT POSITION RTN	5777
B8	VNT POSITION F/B	5775
C1	CAN LINK HI (EDU)	2361
C2	FUEL FILTER PRESSURE SW	5765
C3	EGR POSITION 5V	2703
C4	EGR DC MOTOR HI	5764
C5	EGR DC MOTOR LO	5746
C6	MAP - 5V	597
C7	MAP - RTN	469
C8	MAP - SIGNAL	432

B1: See page 057b
C1: See page 057b

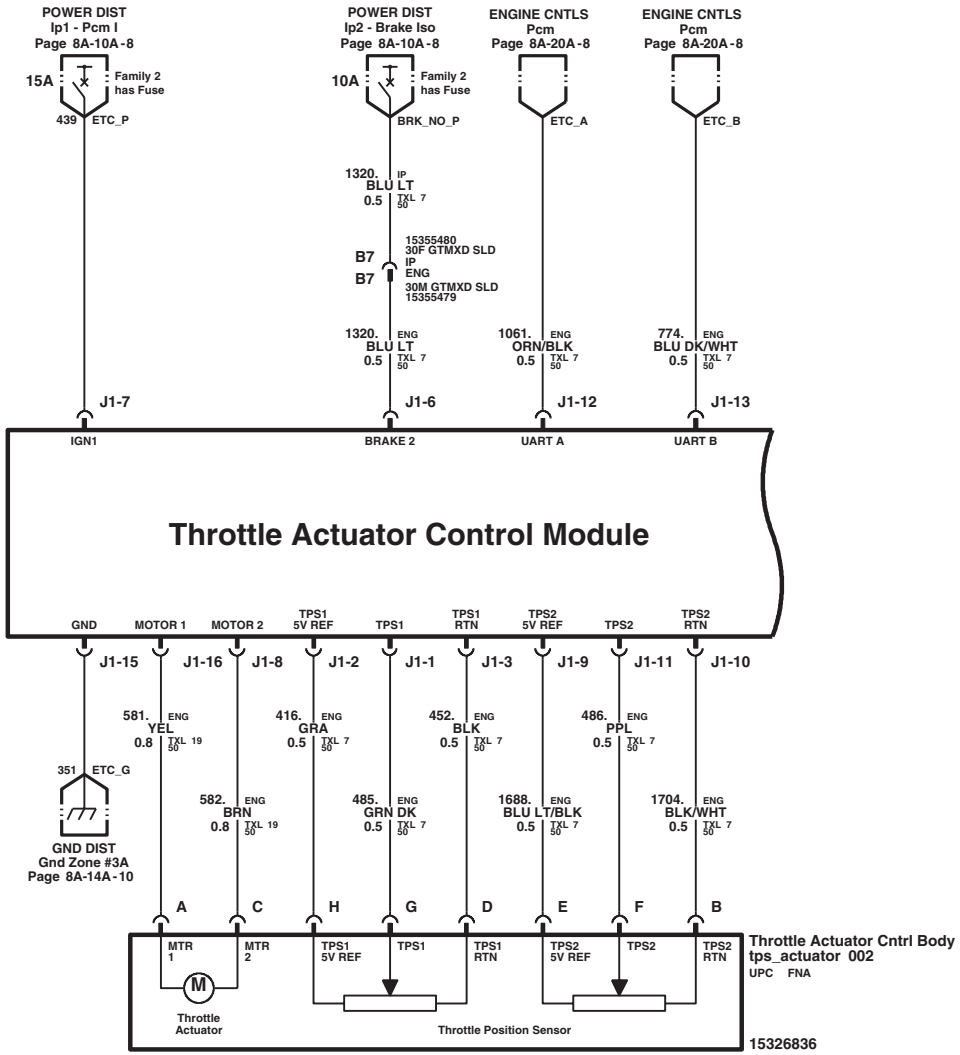
I3 15422994 GMTG

FUNCTION	CIRCUIT NO.
GLOW BATT CNTL	2

NOTE: XXX = Physical isolation for Can link
n/c = No connection

Engine Controls (LLY) OBJECT ID h53020d REVISION 002 STAGE Beta VERSION 0 LAST CHANGED BY 12:07:58 pm ORGANIZATION GMT560
GMT560 05 X &LLY Friday, September 24, 2004 GMT560
Panel Set: 13 schematic sheet1 26 $IVEDWORK/h53020d__002 Panel Set: 13

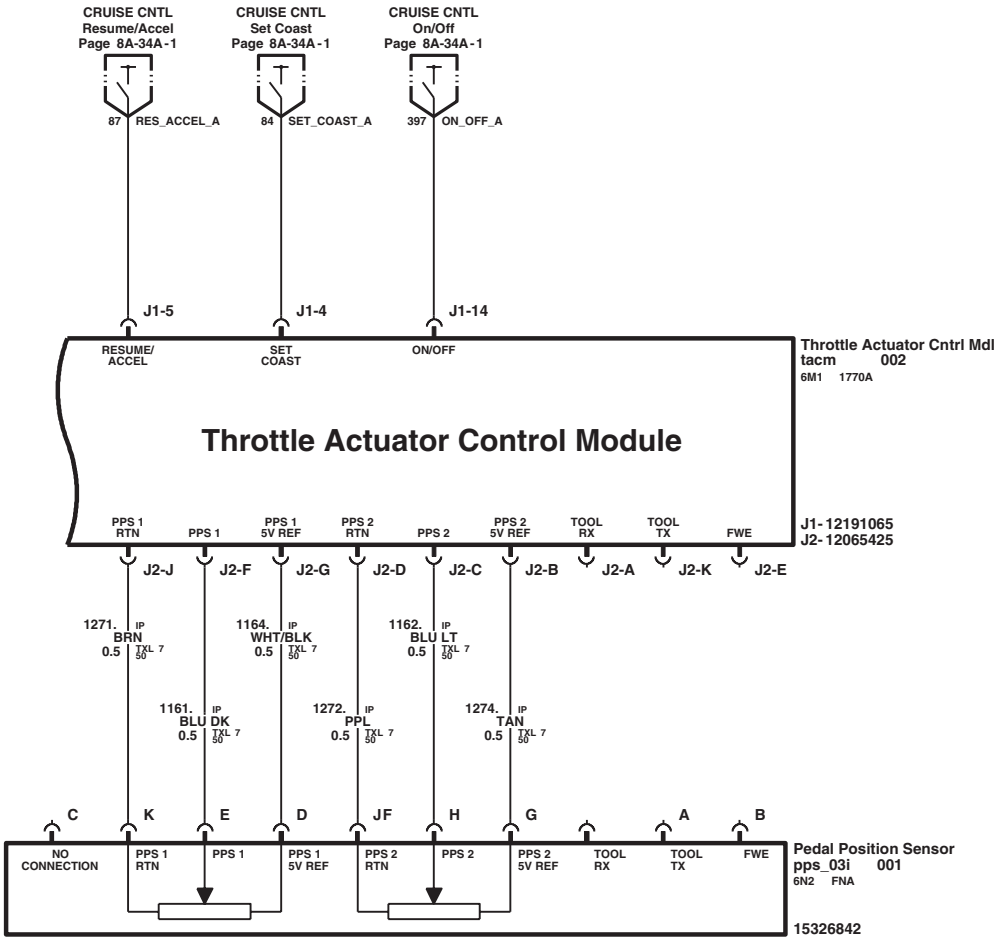
Electronic Throttle Control — (L18) 8.1L-Gas/NAPT



Etc L18	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY	8:21:25 am	ORGANIZATION
GMT560 05 X &L18	h53021a	001	Pilot	0			GMT560
Panel Set: 1 schematic sheet1 10	$IVEDWORK/h53021a__001				Wednesday, October 9, 2002		Panel Set: 1

Electronic Throttle Control — (L18) 8.1L-Gas/NAPT

03_560_000	JG	PILOT B - INITIAL CREATION	20NO00	001
03_560_914	JG	INITIAL CREATION 03i - Connector Update	13FE01	001



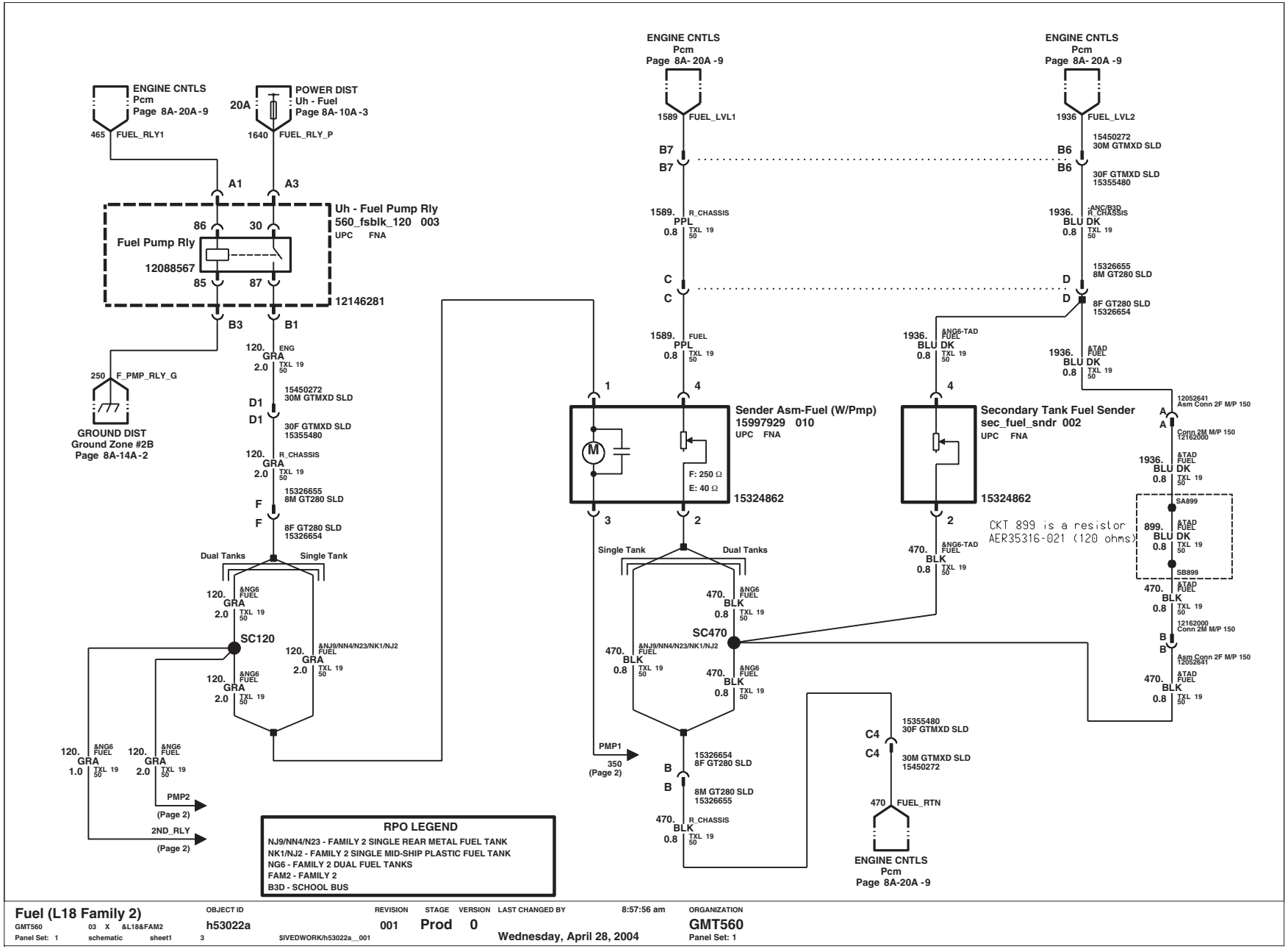
Etc L18
GMT560 05 X &L18 Panel Set: 2 schematic sheet1 10

OBJECT ID h53021a $IVEDWORK/h53021a__001

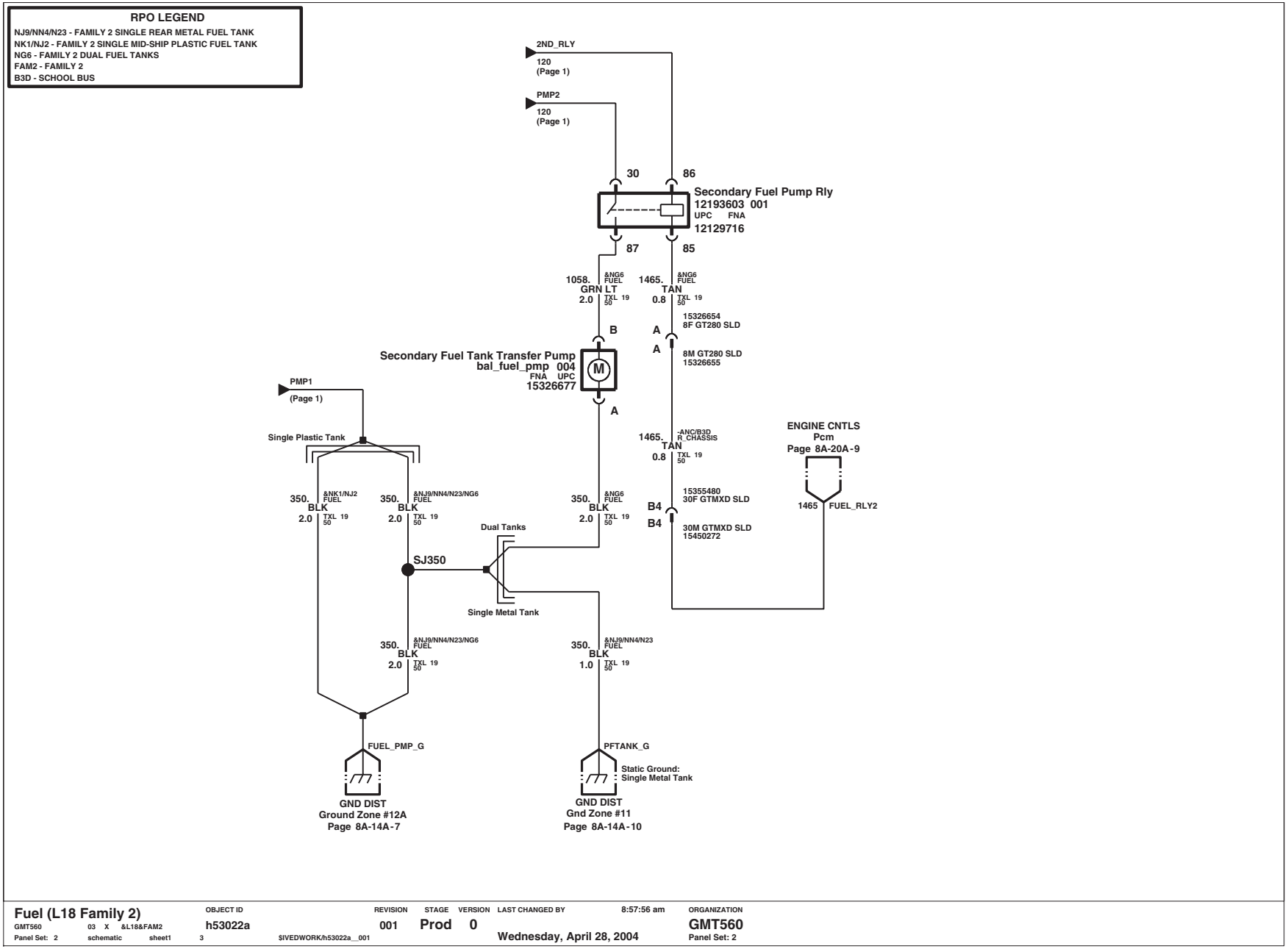
REVISION 001 STAGE Pilot VERSION 0 LAST CHANGED BY 8:21:25 am Wednesday, October 9, 2002

ORGANIZATION GMT560 Panel Set: 2

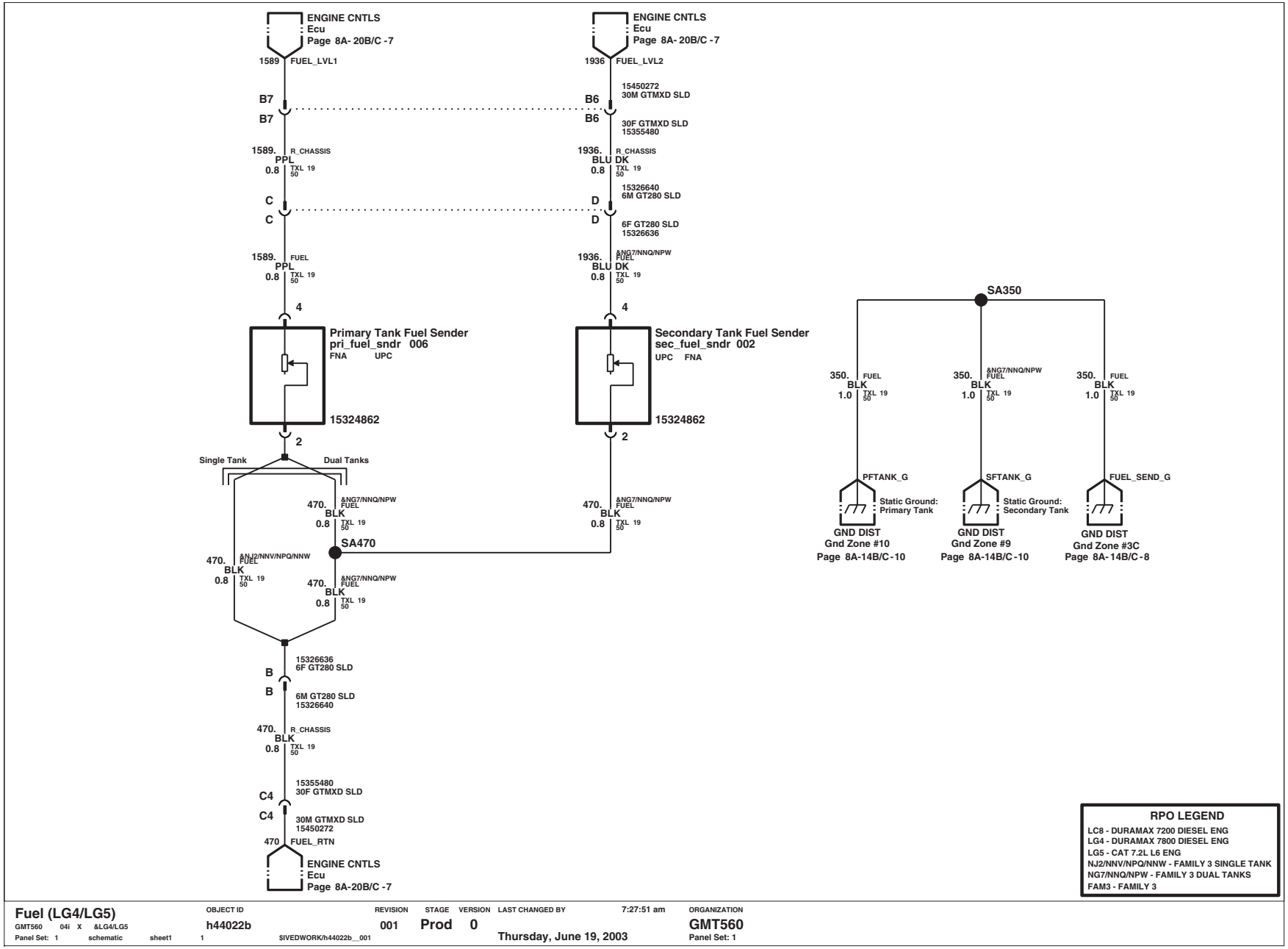
Fuel — (L18) 8.1L-Gas/NAPT (Family 2)



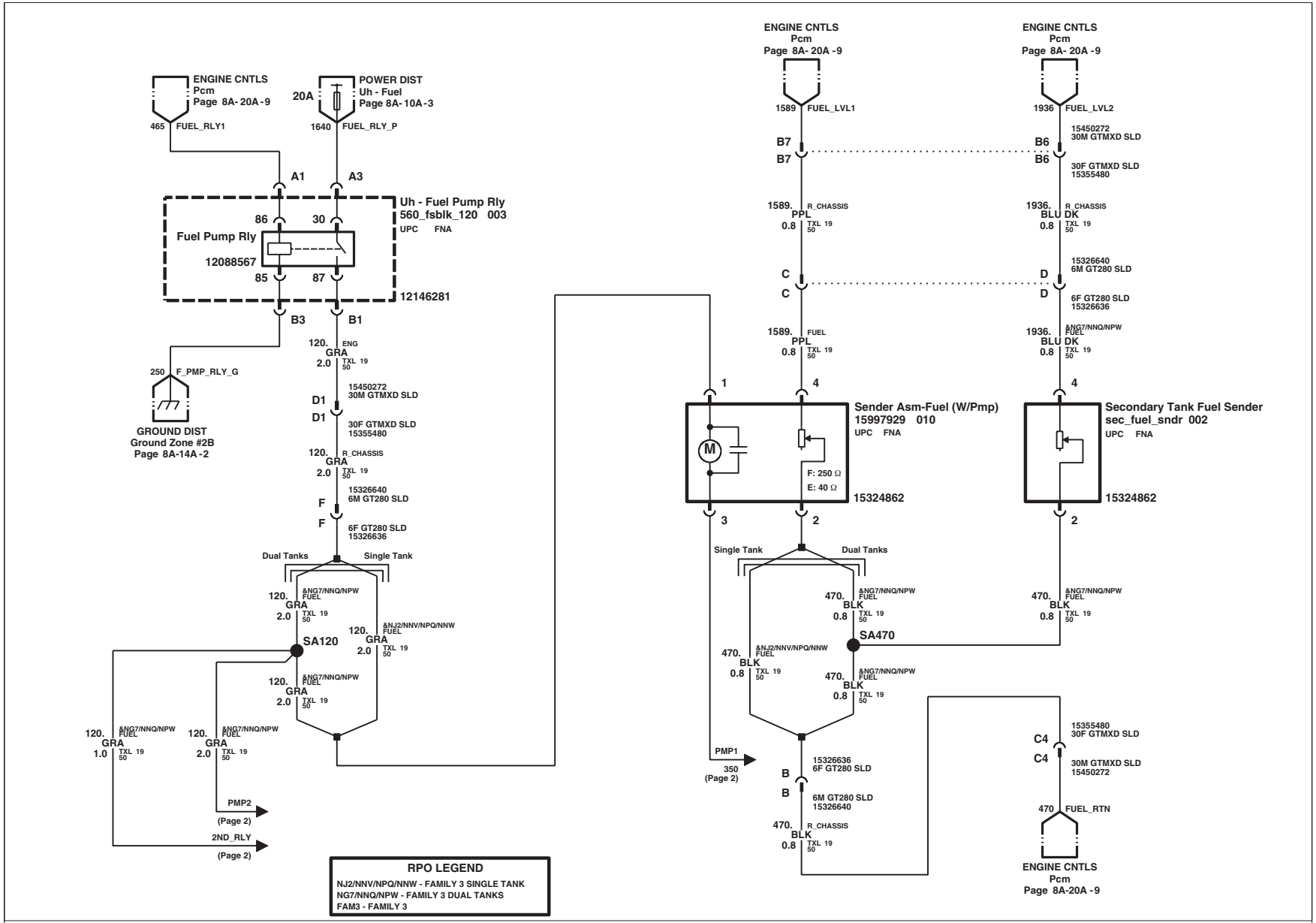
Fuel — (L18) 8.1L-Gas/NAPT (Family 2)



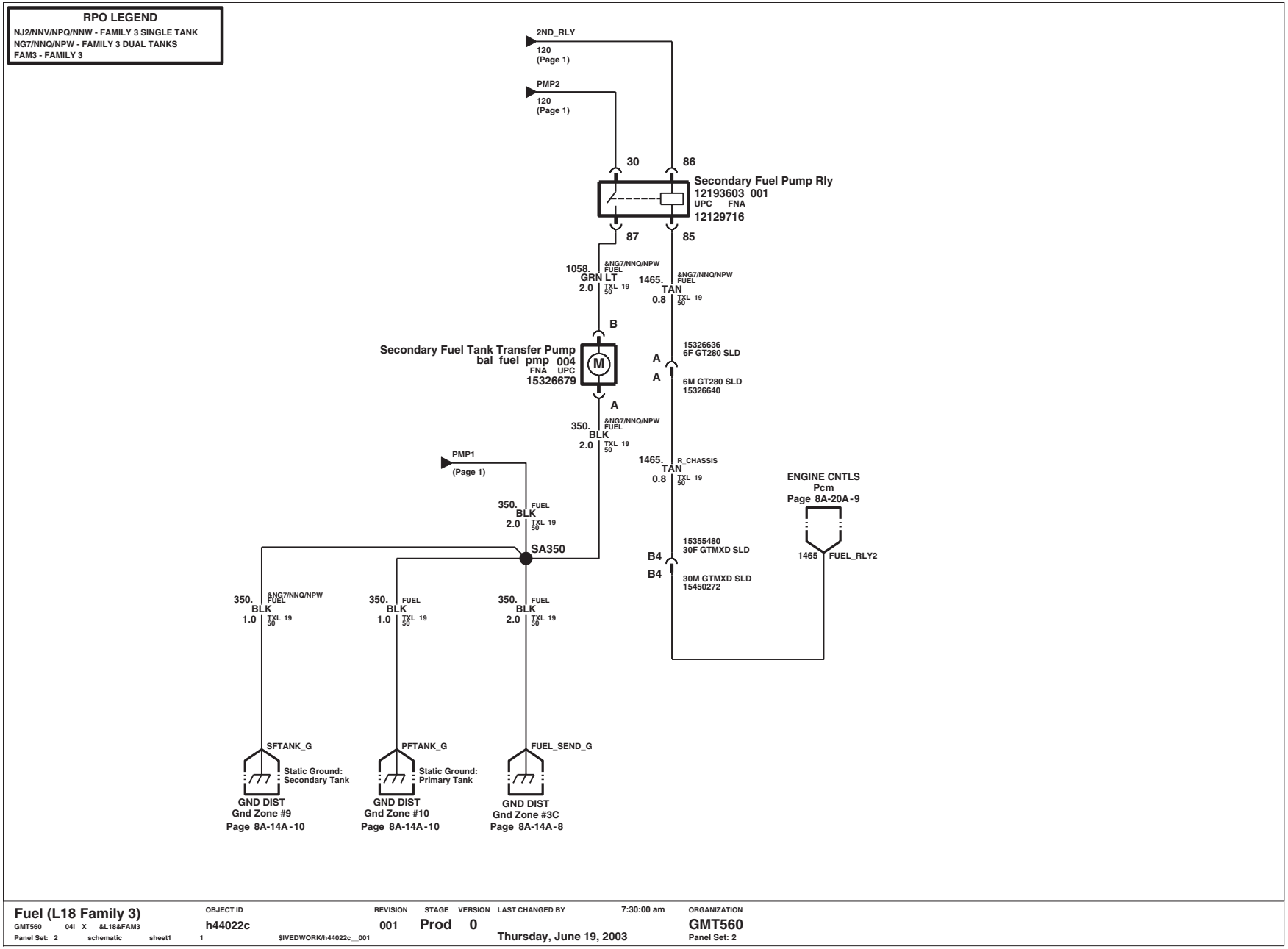
Fuel — (LG4) 7.8L-Diesel/Duramax — (LG5) 7.2L-Diesel/CAT



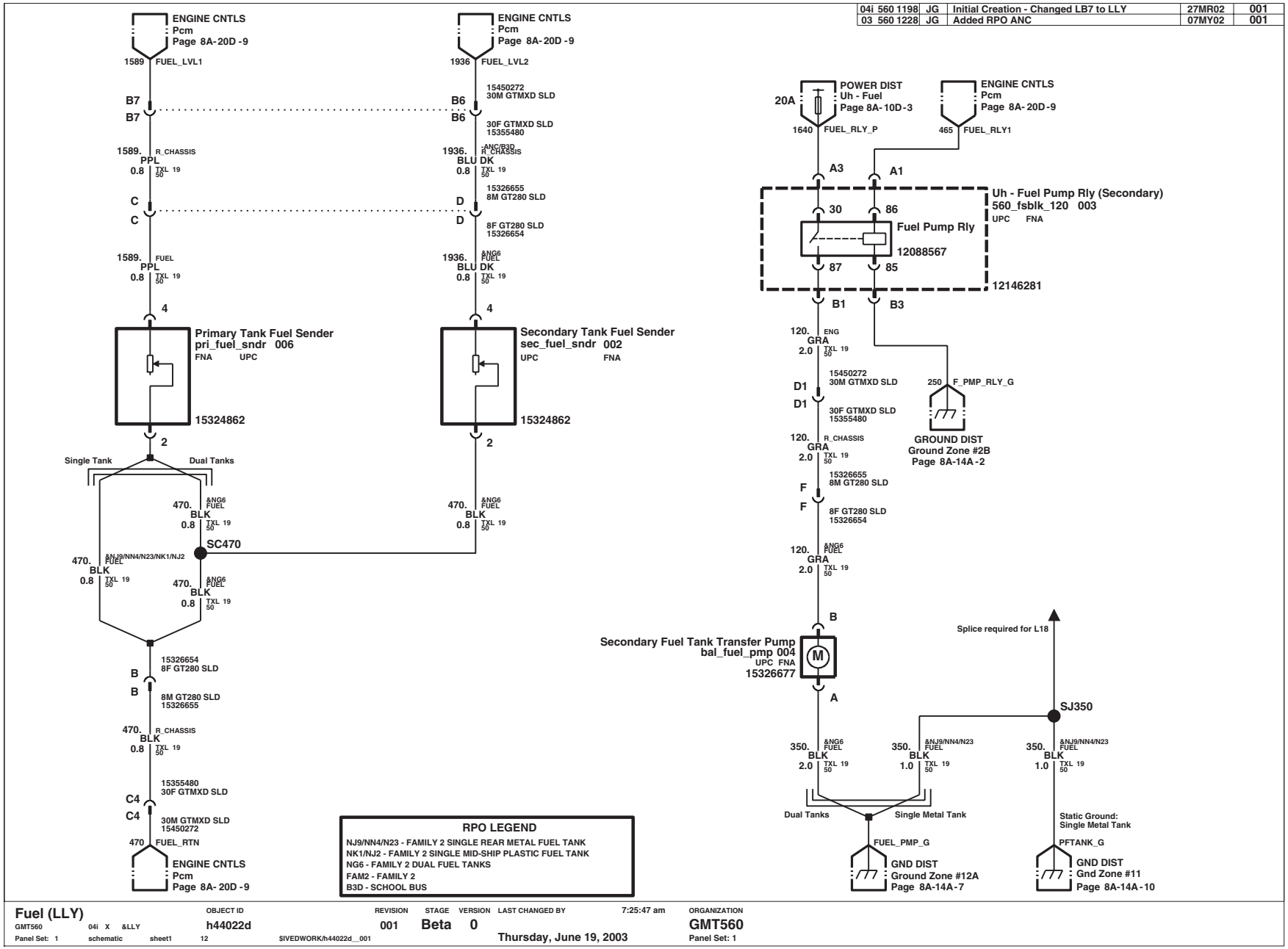
Fuel — (L18) 8.1L-Gas/NAPT (Family 3)



Fuel — (L18) 8.1L-Gas/NAPT (Family 3)

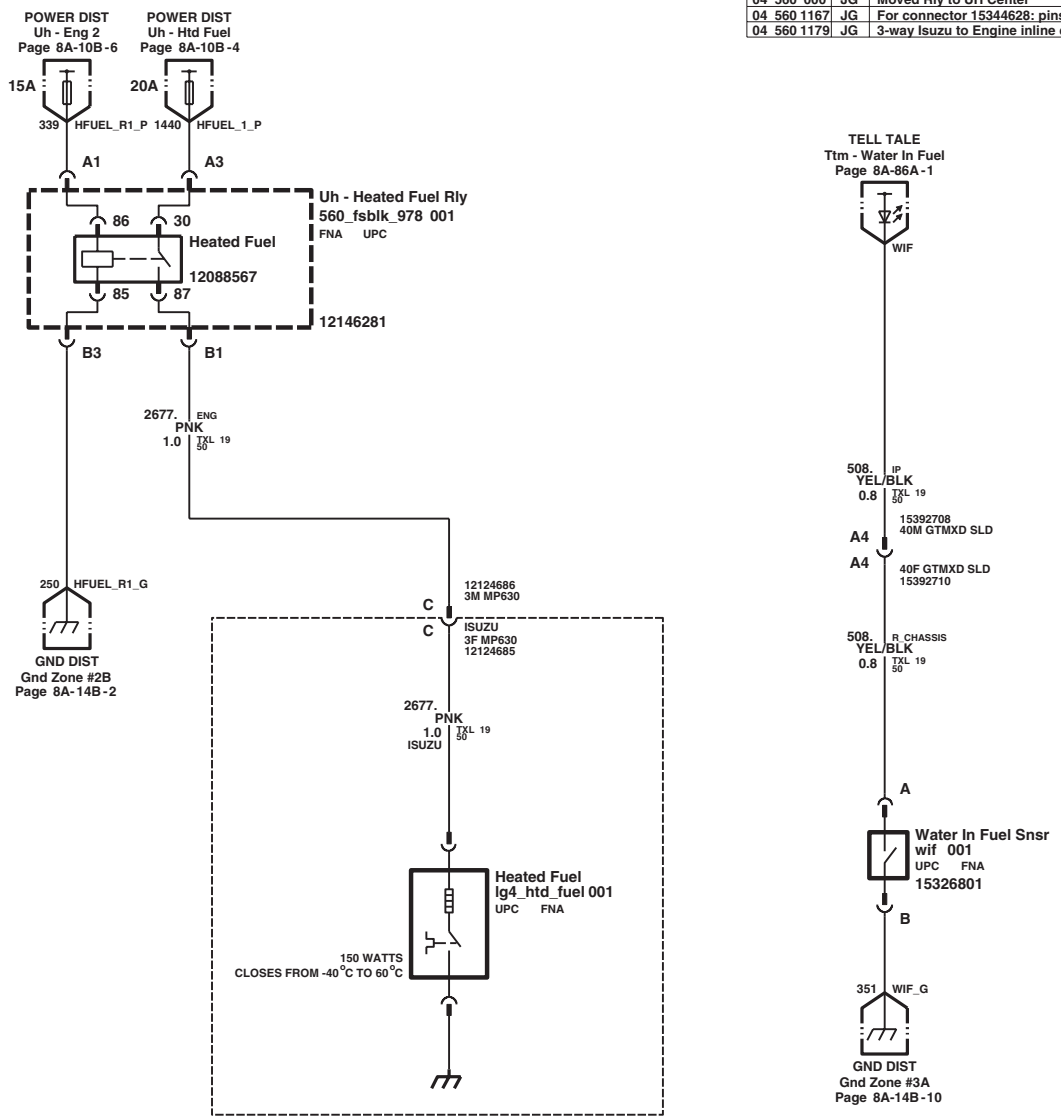


Fuel — (LLY) 6.6L-Diesel/Duramax



Heated Fuel/Water in Fuel — (LG4) 7.8L-Diesel/Duramax

04 560 000	JG	Beta - Initial Creation	02JA02	001
04 560 000	JG	Moved Rly to UH Center	04JA02	001
04 560 1167	JG	For connector 15344628: pins A,B,C to 1,2,3	19FE02	001
04 560 1179	JG	3-way Isuzu to Engine inline change	04MR02	001



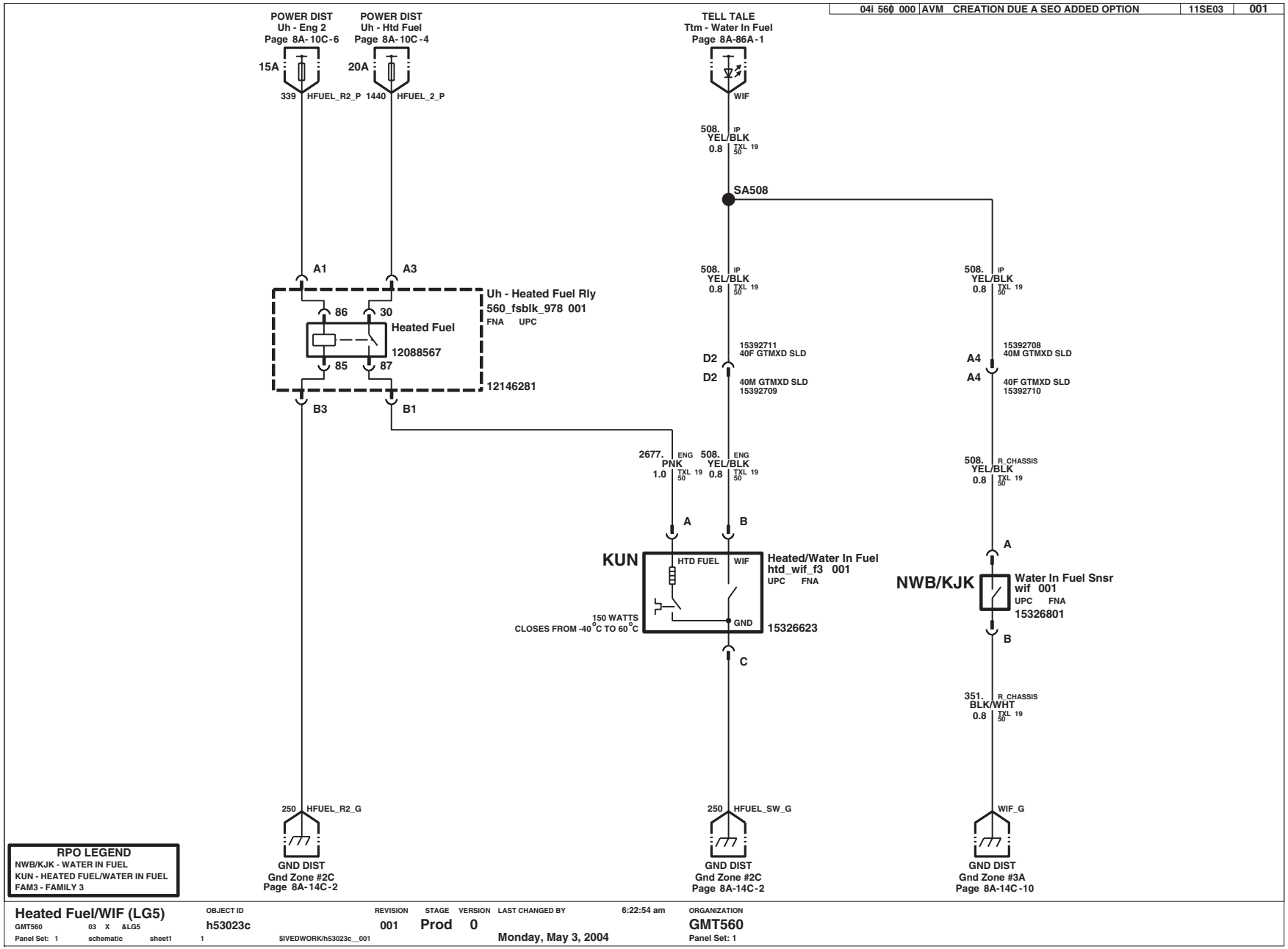
NWB/KUK

RPO LEGEND
NWB - WATER AND FUEL SEPARATOR
KUK - WATER IN FUEL

Heated Fuel/WIF (LG4)
GMT560 04i X &LG4
Panel Set: 1 schematic sheet1 16

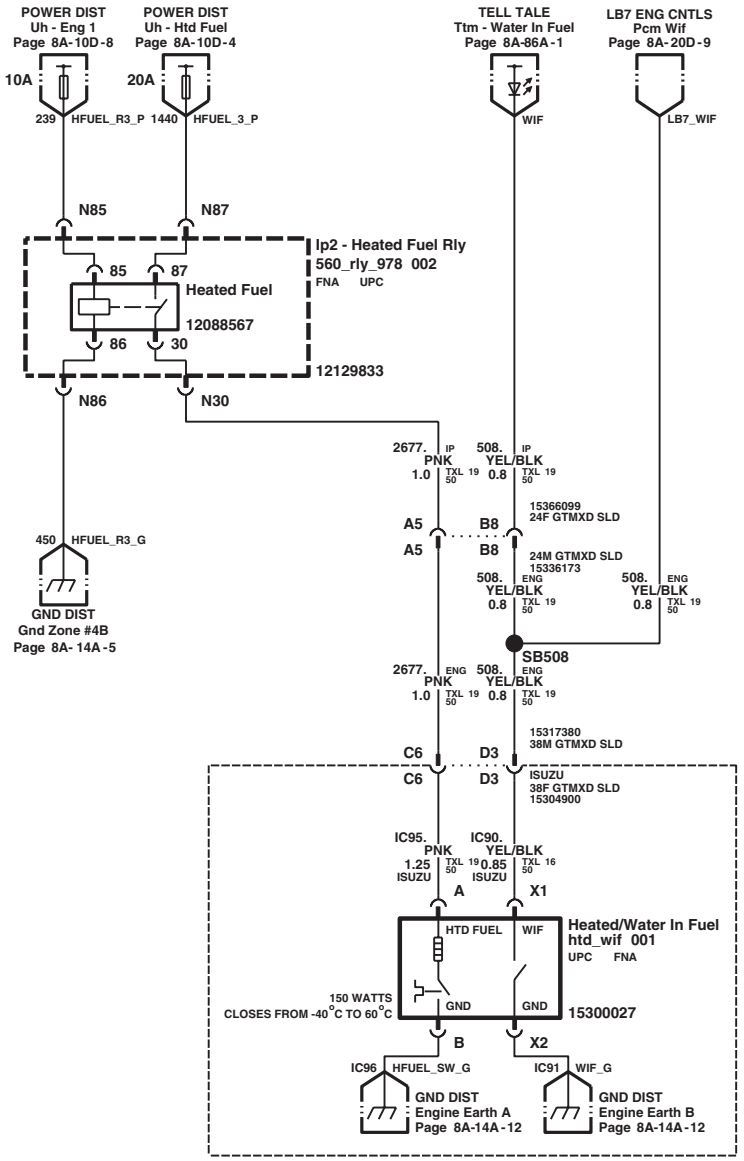
OBJECT ID: h44023b
REVISION: 001
STAGE: Beta
VERSION: 0
LAST CHANGED BY: $IVEDWORK/h44023b__001
7:58:53 am
Thursday, August 15, 2002
ORGANIZATION: GMT560
Panel Set: 1

Heated Fuel/Water in Fuel — (LG5) 7.2L-Diesel/CAT



Heated Fuel/Water in Fuel — (LLY) 6.6L-Diesel/Duramax

04 560 000	JG	Beta - Initial Creation	04JA02	001
04i 560 1198	JG	Changed LB7 to LLY	27MR02	001



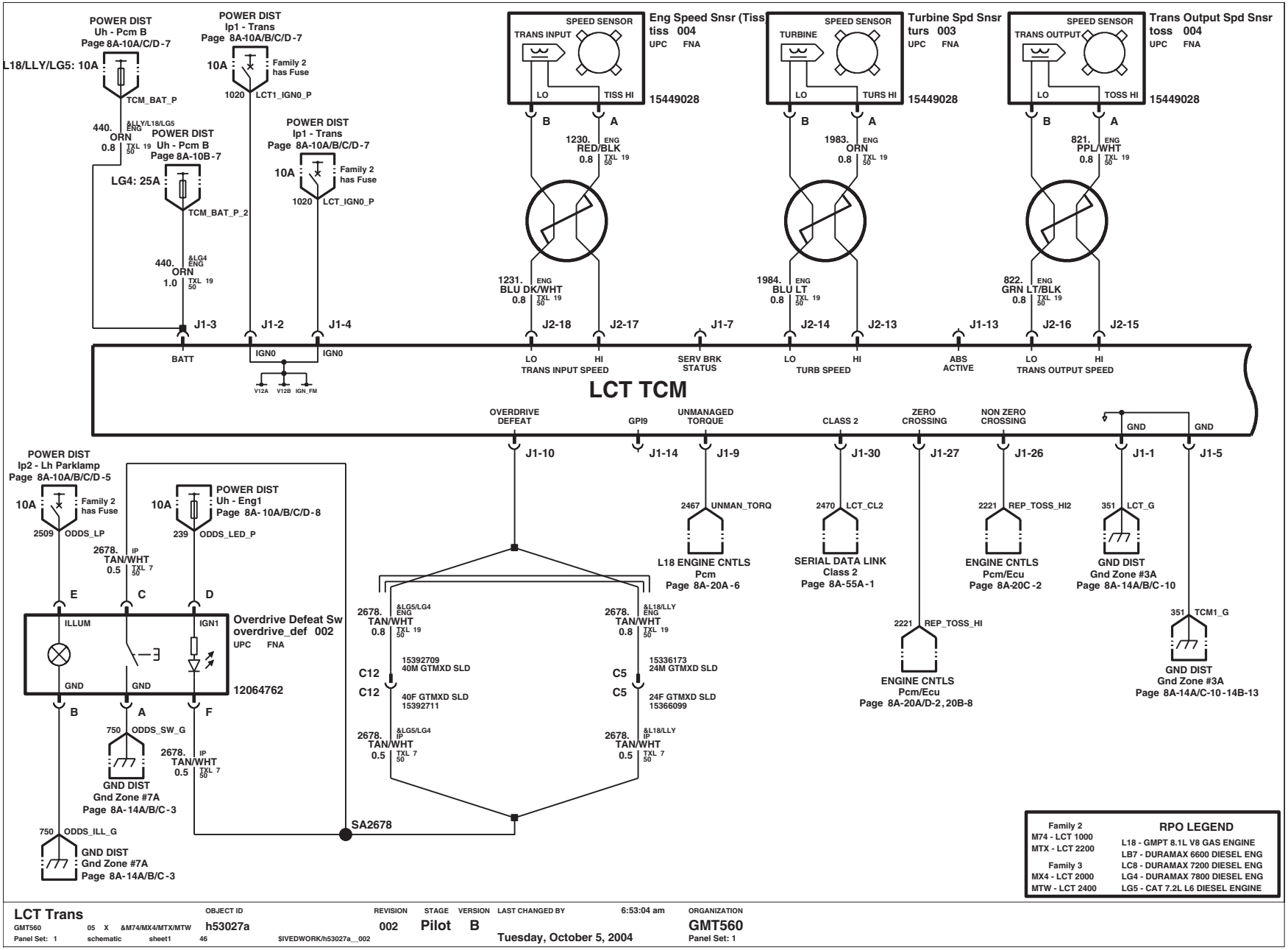
Heated Fuel/WIF (LLY)
GMT560 04i X &LLY
Panel Set: 1 schematic sheet1 9

OBJECT ID: h44023d
$IVEDWORK/h44023d__001

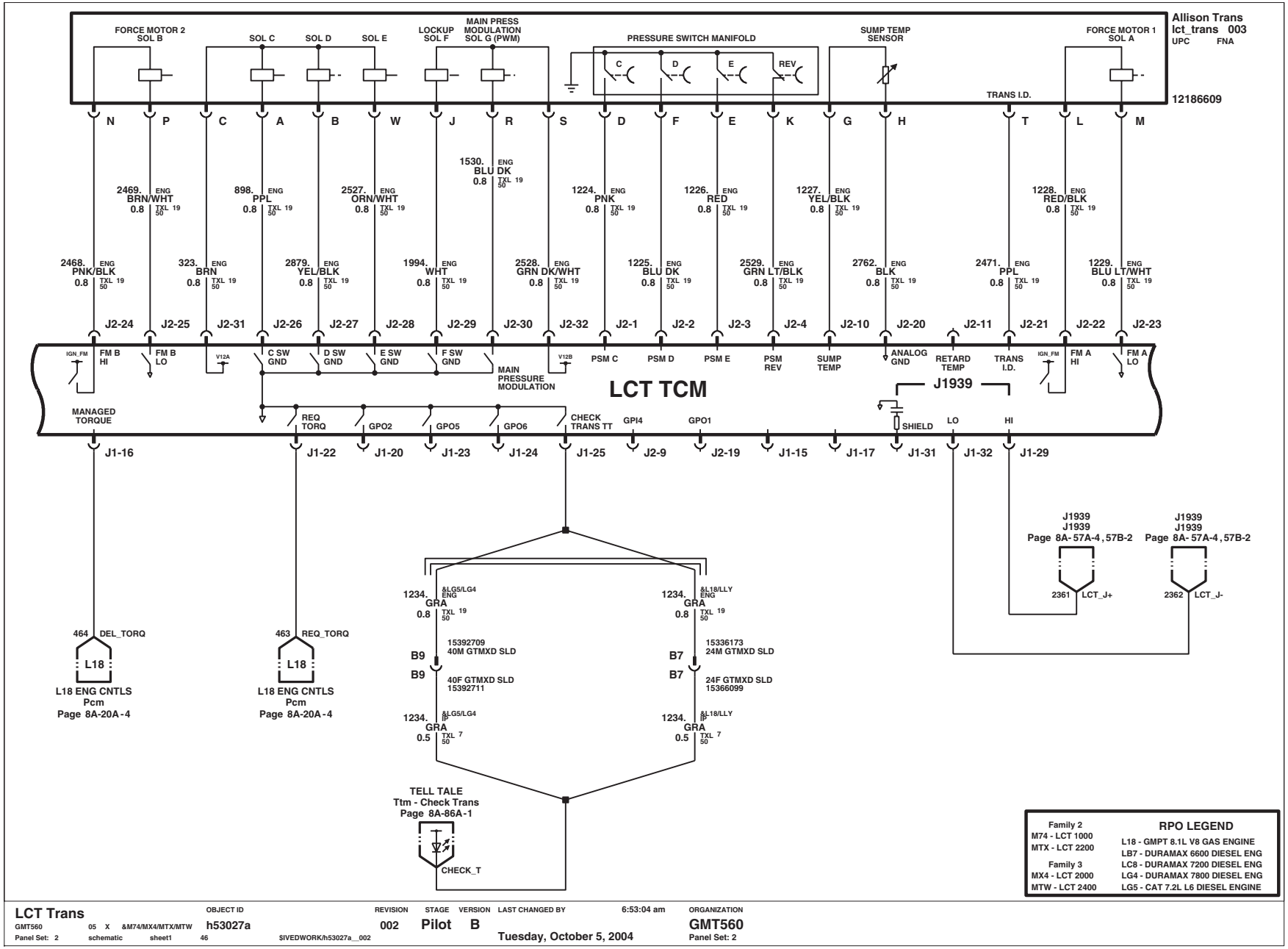
REVISION: 001
STAGE: Beta
VERSION: 0
LAST CHANGED BY
7:59:56 am
Thursday, August 15, 2002

ORGANIZATION: GMT560
Panel Set: 1

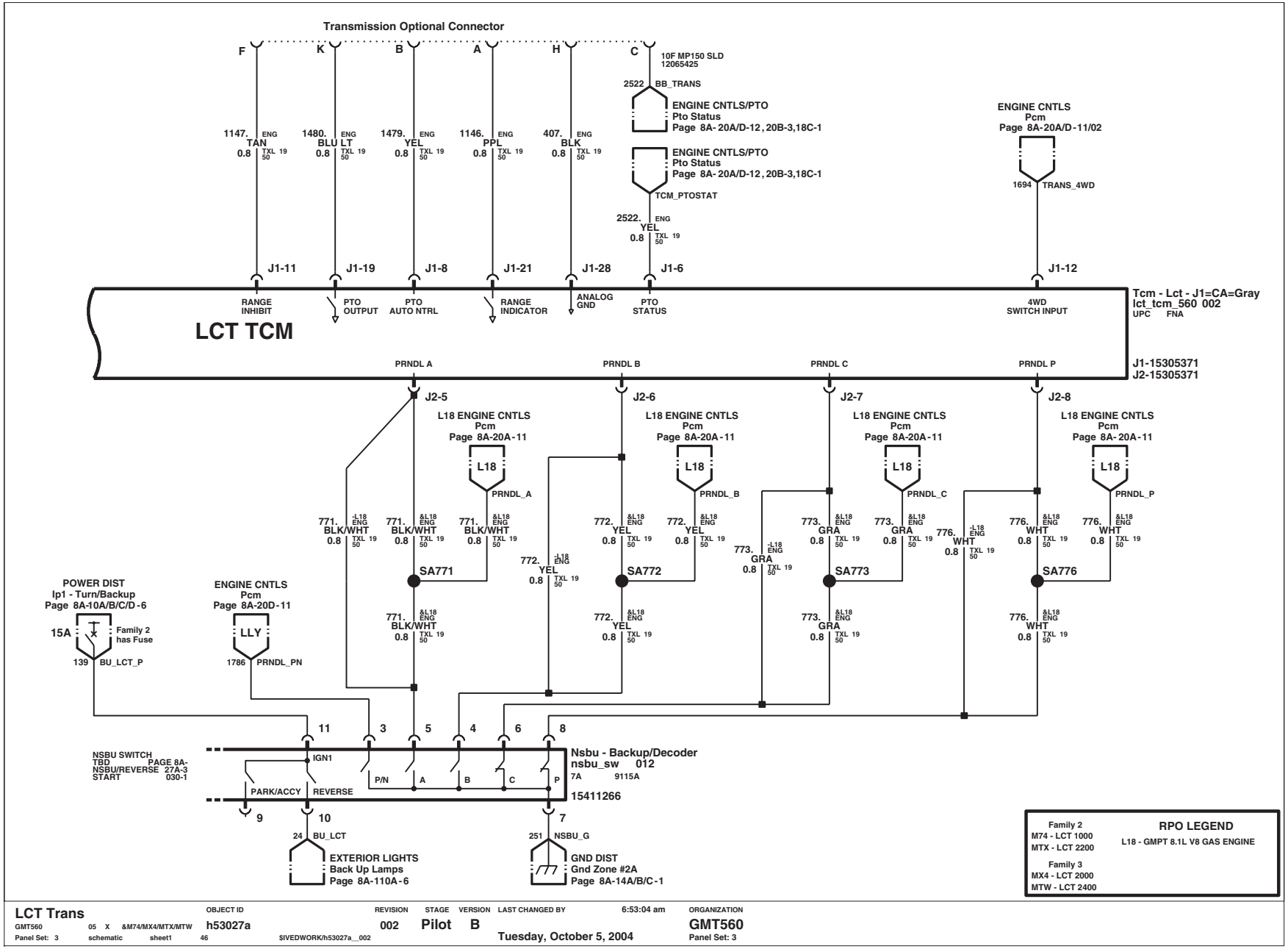
Automatic Transmission — TCM (LCT)



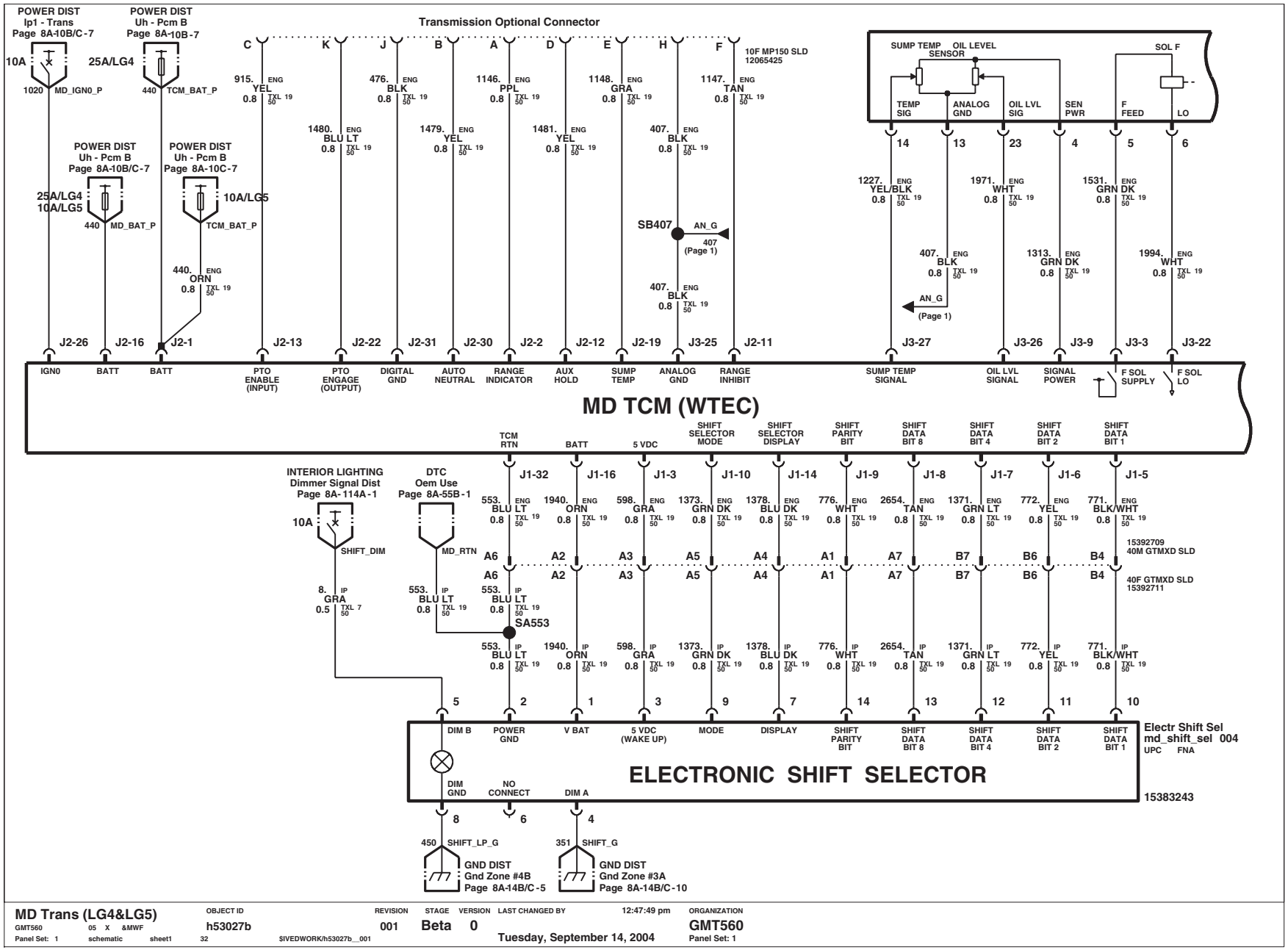
Automatic Transmission — TCM (LCT)


Allison Trans
lct_trans 003
UPC FNA
12186609
FORCE MOTOR 2 SOL B
SOL C
SOL D
SOL E
LOCKUP SOL F
MAIN PRESS MODULATION SOL G (PWM)
PRESSURE SWITCH MANIFOLD
SUMP TEMP SENSOR
FORCE MOTOR 1 SOL A
TRANS I.D.
N P C A B W J R S D F E K G H T L M
2469. ENG BRN/WHT 0.8 TXL 19 50
898. ENG PPL 0.8 TXL 19 50
2527. ENG ORN/WHT 0.8 TXL 19 50
1530. ENG BLU DK 0.8 TXL 19 50
1224. ENG PNK 0.8 TXL 19 50
1226. ENG RED 0.8 TXL 19 50
1227. ENG YEL/BLK 0.8 TXL 19 50
1228. ENG RED/BLK 0.8 TXL 19 50
2468. ENG PNK/BLK 0.8 TXL 19 50
323. ENG BRN 0.8 TXL 19 50
2879. ENG YEL/BLK 0.8 TXL 19 50
1994. ENG WHT 0.8 TXL 19 50
2528. ENG GRN DK/WHT 0.8 TXL 19 50
1225. ENG BLU DK 0.8 TXL 19 50
2529. ENG GRN LT/BLK 0.8 TXL 19 50
2762. ENG BLK 0.8 TXL 19 50
2471. ENG PPL 0.8 TXL 19 50
1229. ENG BLU LT/WHT 0.8 TXL 19 50
J2-24 J2-25 J2-31 J2-26 J2-27 J2-28 J2-29 J2-30 J2-32 J2-1 J2-2 J2-3 J2-4 J2-10 J2-20 J2-11 J2-21 J2-22 J2-23
IGN_FM FM B HI
FM B LO
V12A
C SW GND
D SW GND
E SW GND
F SW GND
MAIN PRESSURE MODULATION
V12B
PSM C
PSM D
PSM E
PSM REV
SUMP TEMP
ANALOG GND
RETARD TEMP
TRANS I.D.
IGN_FM FM A HI
FM A LO
LCT TCM
J1939
MANAGED TORQUE
REQ TORQ
GPO2
GPO5
GPO6
CHECK TRANS TT
GPI4
GPO1
SHIELD
LO
HI
J1-16 J1-22 J1-20 J1-23 J1-24 J1-25 J2-9 J2-19 J1-15 J1-17 J1-31 J1-32 J1-29
J1939 J1939 Page 8A-57A-4,57B-2
J1939 J1939 Page 8A-57A-4,57B-2
2361 LCT_J+
2362 LCT_J-
464 DEL_TORQ
L18
L18 ENG CNTLS Pcm Page 8A-20A-4
463 REQ_TORQ
L18
L18 ENG CNTLS Pcm Page 8A-20A-4
1234. &LG5/LG4 ENG GRA 0.8 TXL 19 50
1234. &L18/LLY ENG GRA 0.8 TXL 19 50
B9 15392709 40M GTMXD SLD
B9 40F GTMXD SLD 15392711
B7 15336173 24M GTMXD SLD
B7 24F GTMXD SLD 15366099
1234. &LG5/LG4 ENG GRA 0.5 TXL 7 50
1234. &L18/LLY ENG GRA 0.5 TXL 7 50
TELL TALE
Ttm - Check Trans
Page 8A-86A-1
CHECK_T
RPO LEGEND
Family 2
M74 - LCT 1000
MTX - LCT 2200
Family 3
MX4 - LCT 2000
MTW - LCT 2400
L18 - GMPT 8.1L V8 GAS ENGINE
LB7 - DURAMAX 6600 DIESEL ENG
LC8 - DURAMAX 7200 DIESEL ENG
LG4 - DURAMAX 7800 DIESEL ENG
LG5 - CAT 7.2L L6 DIESEL ENGINE
LCT Trans
GMT560 05 X &M74/MX4/MTX/MTW
Panel Set: 2 schematic sheet1 46
OBJECT ID h53027a
$IVEDWORK/h53027a__002
REVISION 002
STAGE Pilot
VERSION B
LAST CHANGED BY
6:53:04 am
Tuesday, October 5, 2004
ORGANIZATION GMT560
Panel Set: 2

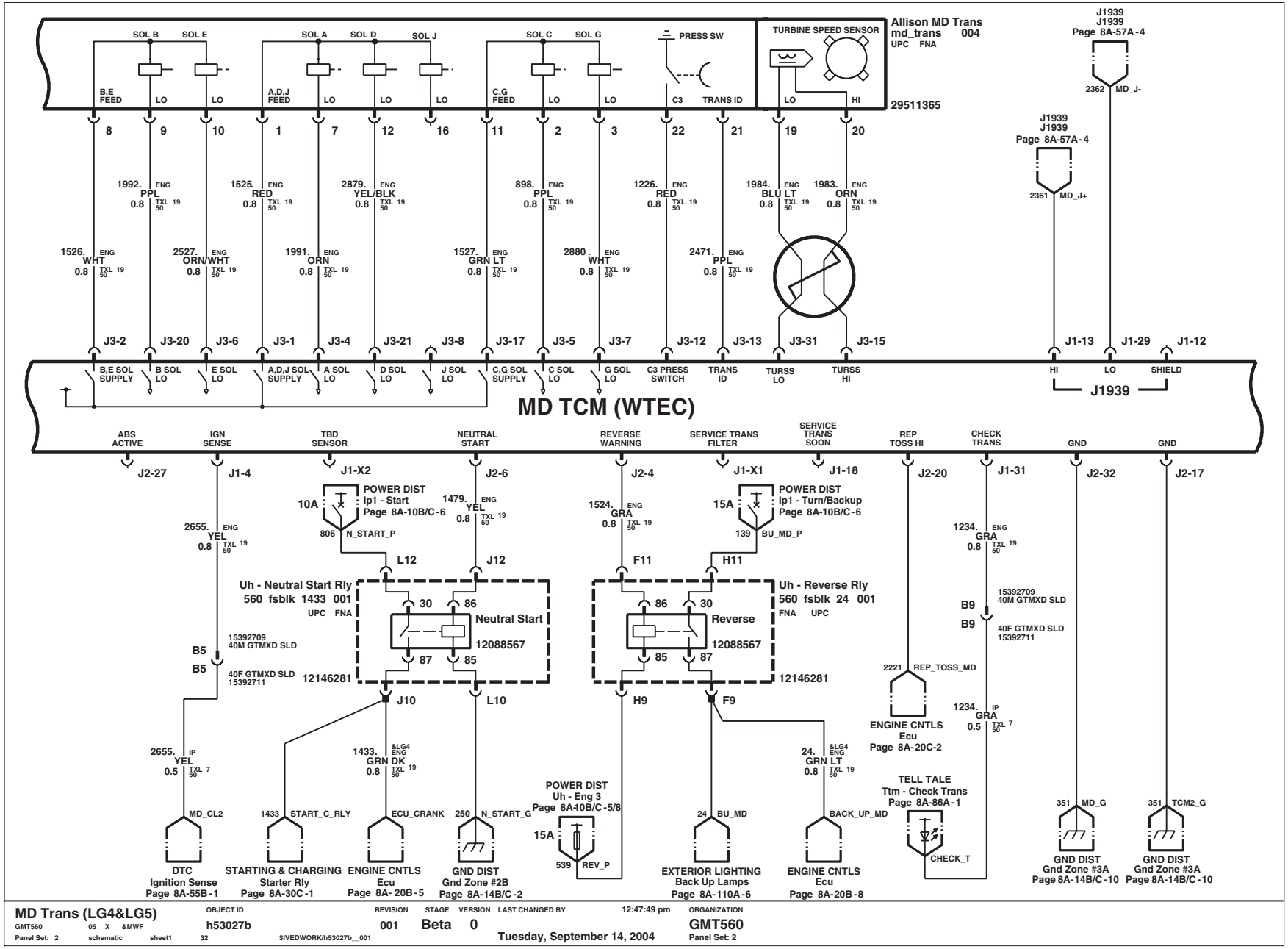
Automatic Transmission — TCM (LCT)



Automatic Transmission — TCM MD Trans (LG4) 7.8L-Diesel/Duramax

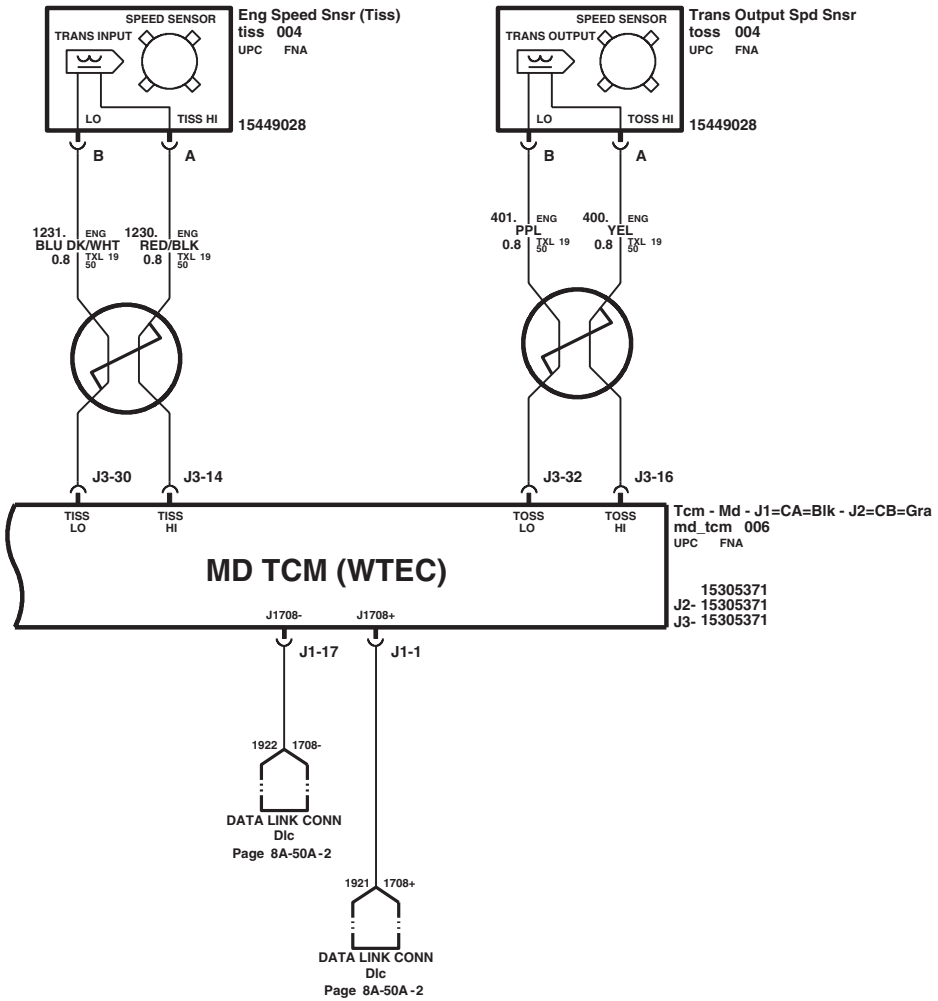


Automatic Transmission — TCM MD Trans (LG4) 7.8L-Diesel/Duramax



MD Trans (LG4&LG5)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY		ORGANIZATION
GMT560 05 X &MWF	h53027b	001	Beta	0	12:47:49 pm		GMT560
Panel Set: 2 schematic sheet1 32	$IVEDWORK/h53027b__001				Tuesday, September 14, 2004		Panel Set: 2

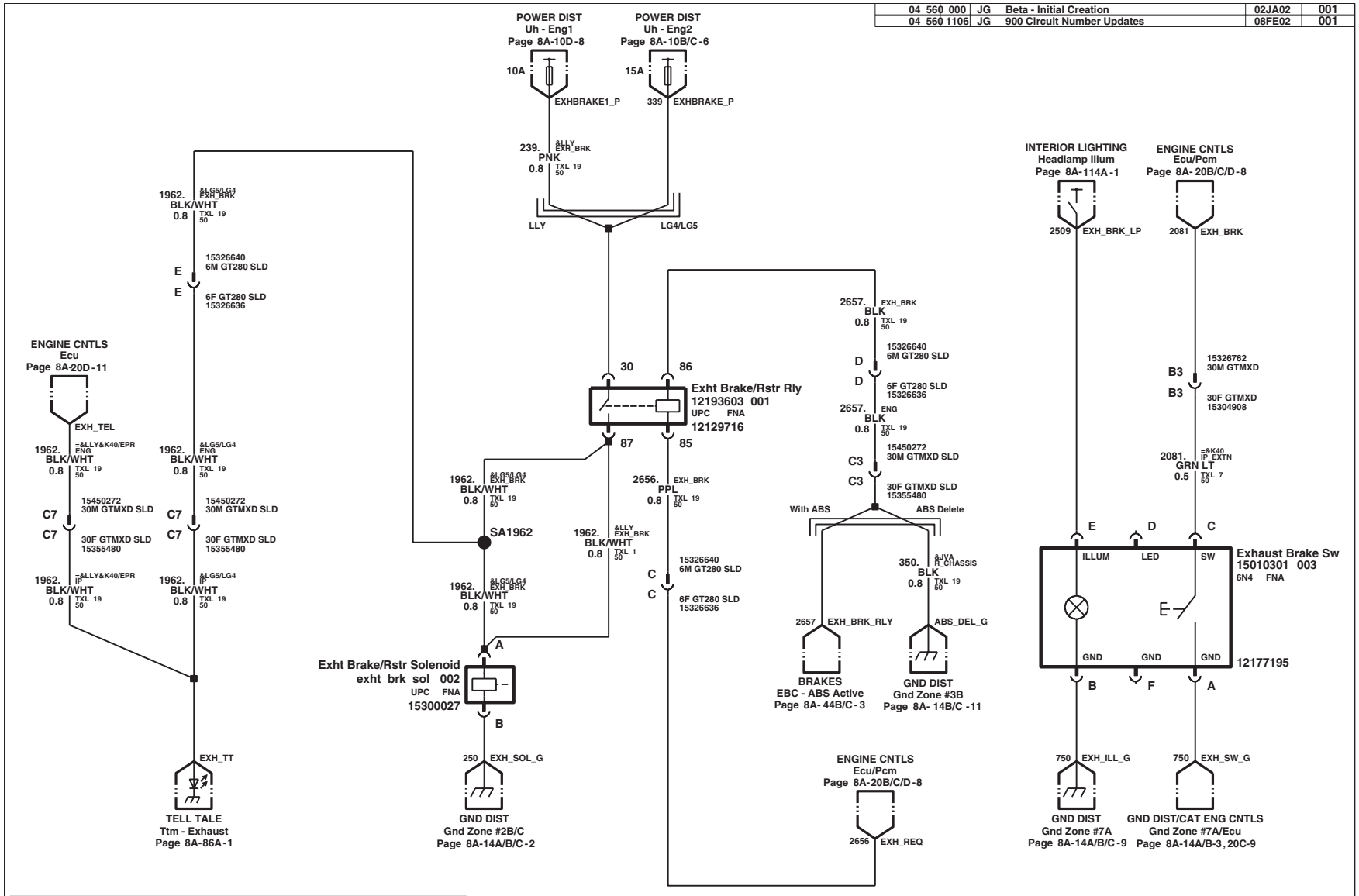
Automatic Transmission — TCM MD Trans (LG4) 7.8L-Diesel/Duramax



MD Trans (LG4&LG5)	OBJECT ID		REVISION	STAGE	VERSION	LAST CHANGED BY	12:47:49 pm	ORGANIZATION
GMT560 05 X &MWF	h53027b		001	Beta	0			GMT560
Panel Set: 3 schematic sheet1 32	$IVEDWORK/h53027b__001					Tuesday, September 14, 2004		Panel Set: 3

Exhaust Brake/Restrictor (Diesel) — (LLY) 6.6L-Duramax — (LG4) 7.8L-Duramax — (LG5) 7.2L CAT

04	560 000	JG	Beta - Initial Creation	02JA02	001
04	560 1106	JG	900 Circuit Number Updates	08FE02	001



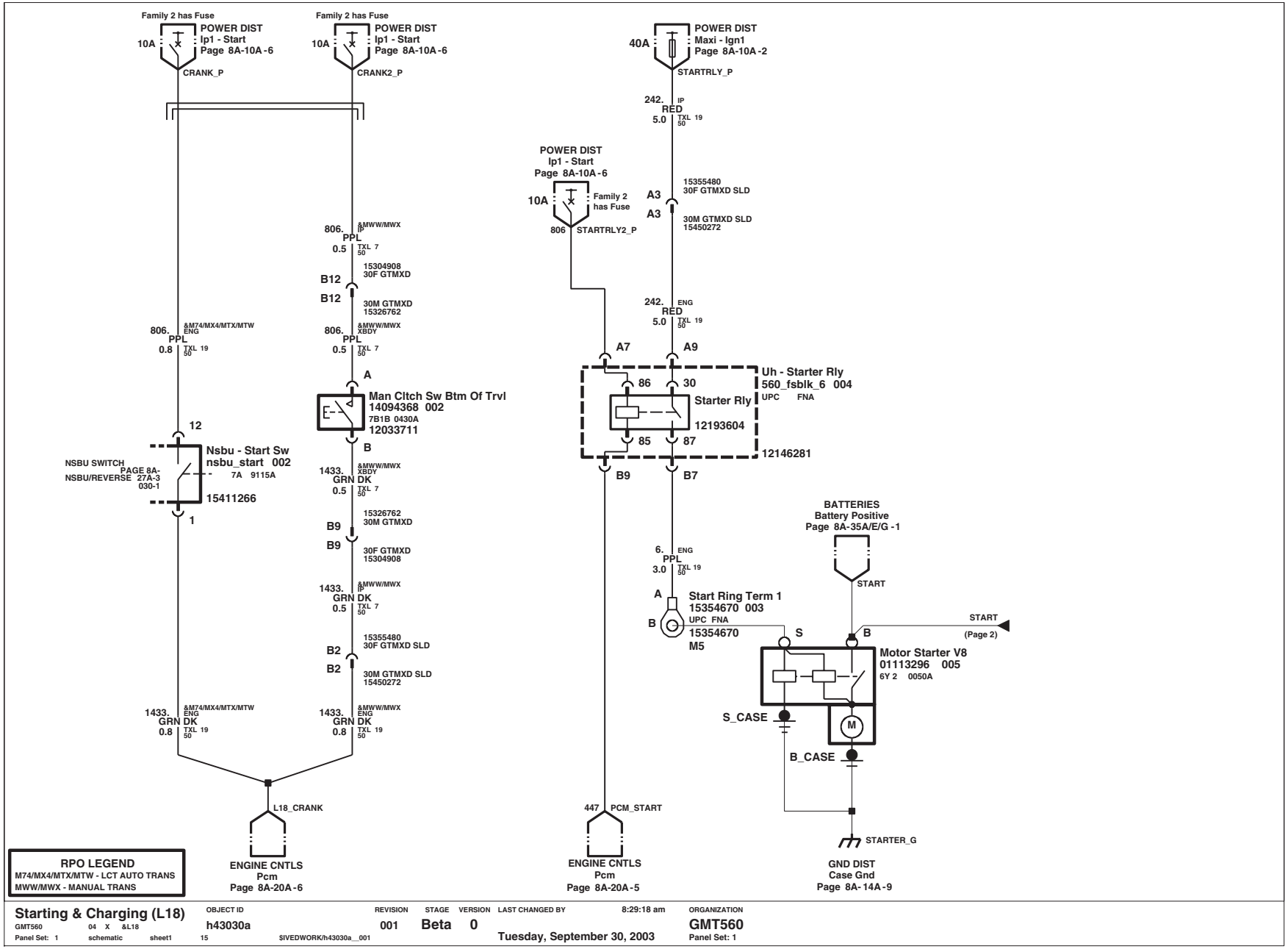
RPO LEGEND

K40 - EXHAUST BRAKE	LLY - DURAMAX 6600 DIESEL ENG	LG4 - DURAMAX 7800 DIESEL ENG
NPE - EXHAUST RESTRICTOR	LG5 - CAT 7.2L L6 DIESEL ENG	JVA - ABS DELETE

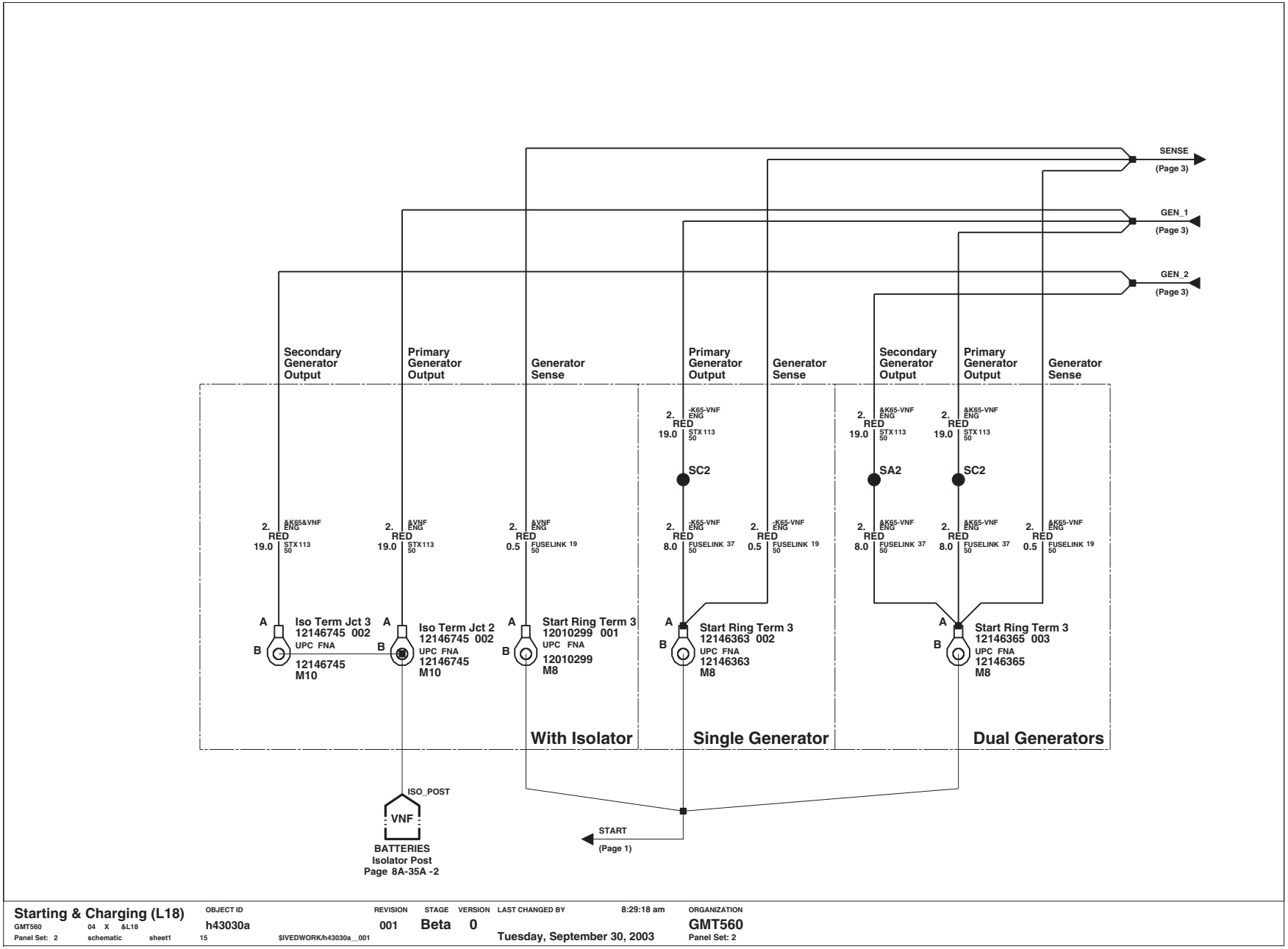
Exhaust Brake/Rstr (Diesel) OBJECT ID h53029a REVISION 001 STAGE Beta VERSION 0 LAST CHANGED BY 6:57:22 am Tuesday, October 5, 2004 ORGANIZATION GMT560

GMT560 05 X &K40/NPE Panel Set: 1 schematic sheet1 1 $IVEDWORK/h53029a__001 Panel Set: 1

Starting & Charging — (L18) 8.1L-Gas/NAPT

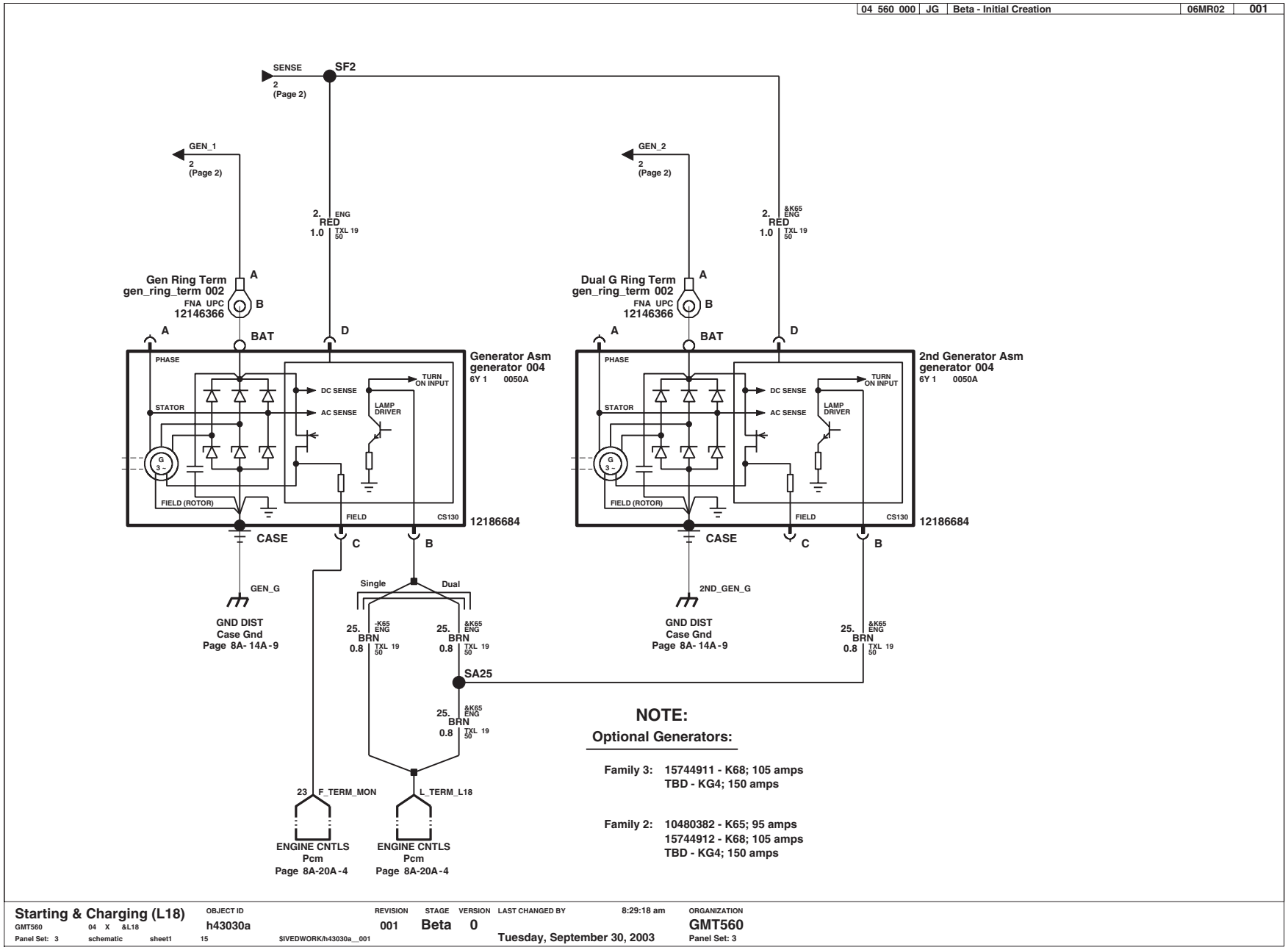


Starting & Charging — (L18) 8.1L-Gas/NAPT

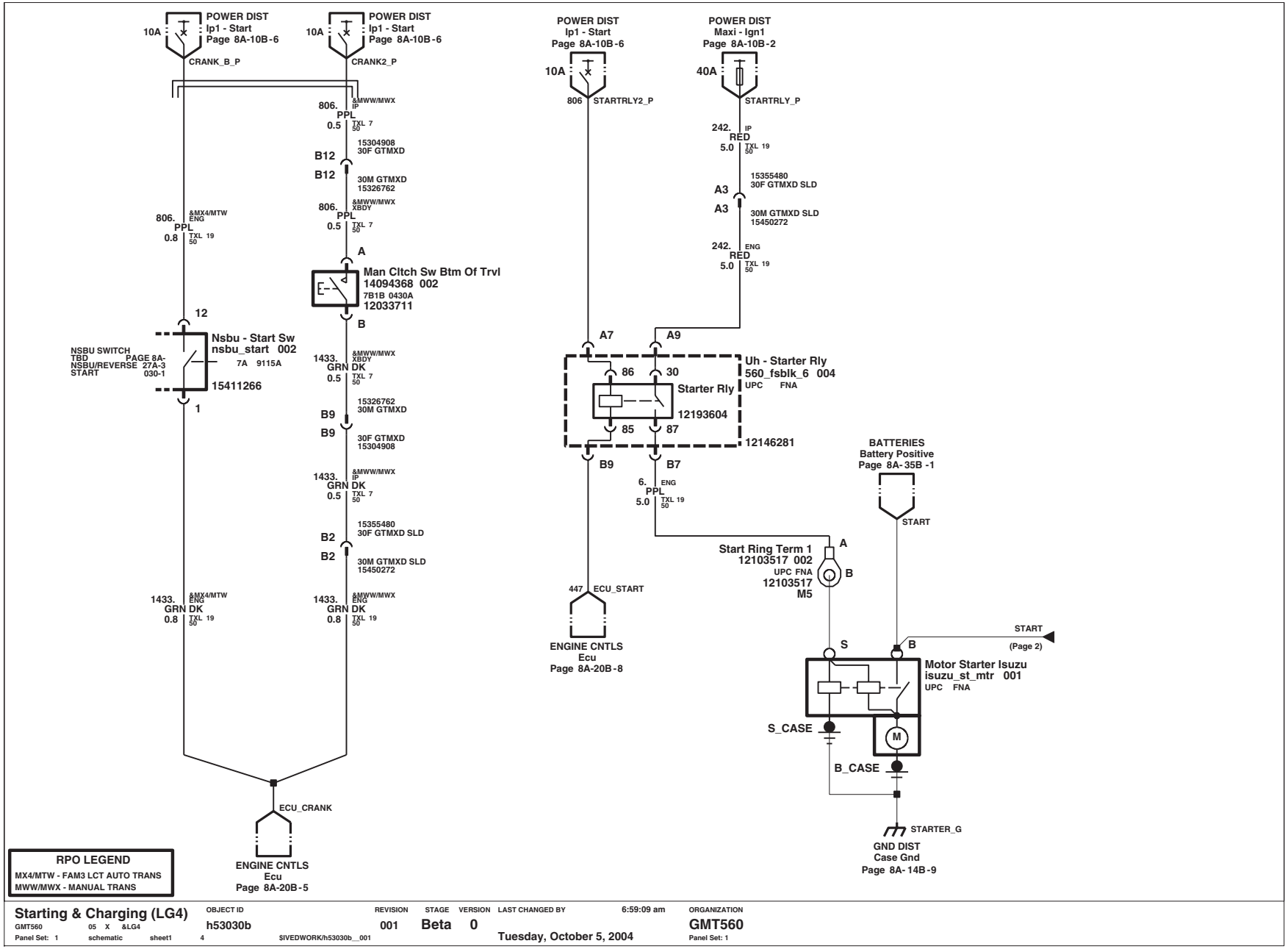


Starting & Charging (L18)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY		ORGANIZATION
GMT560 04 X &L18	h43030a	001	Beta	0		8:29:18 am	GMT560
Panel Set: 2 schematic sheet1 15	$IVEDWORK/h43030a__001				Tuesday, September 30, 2003		Panel Set: 2

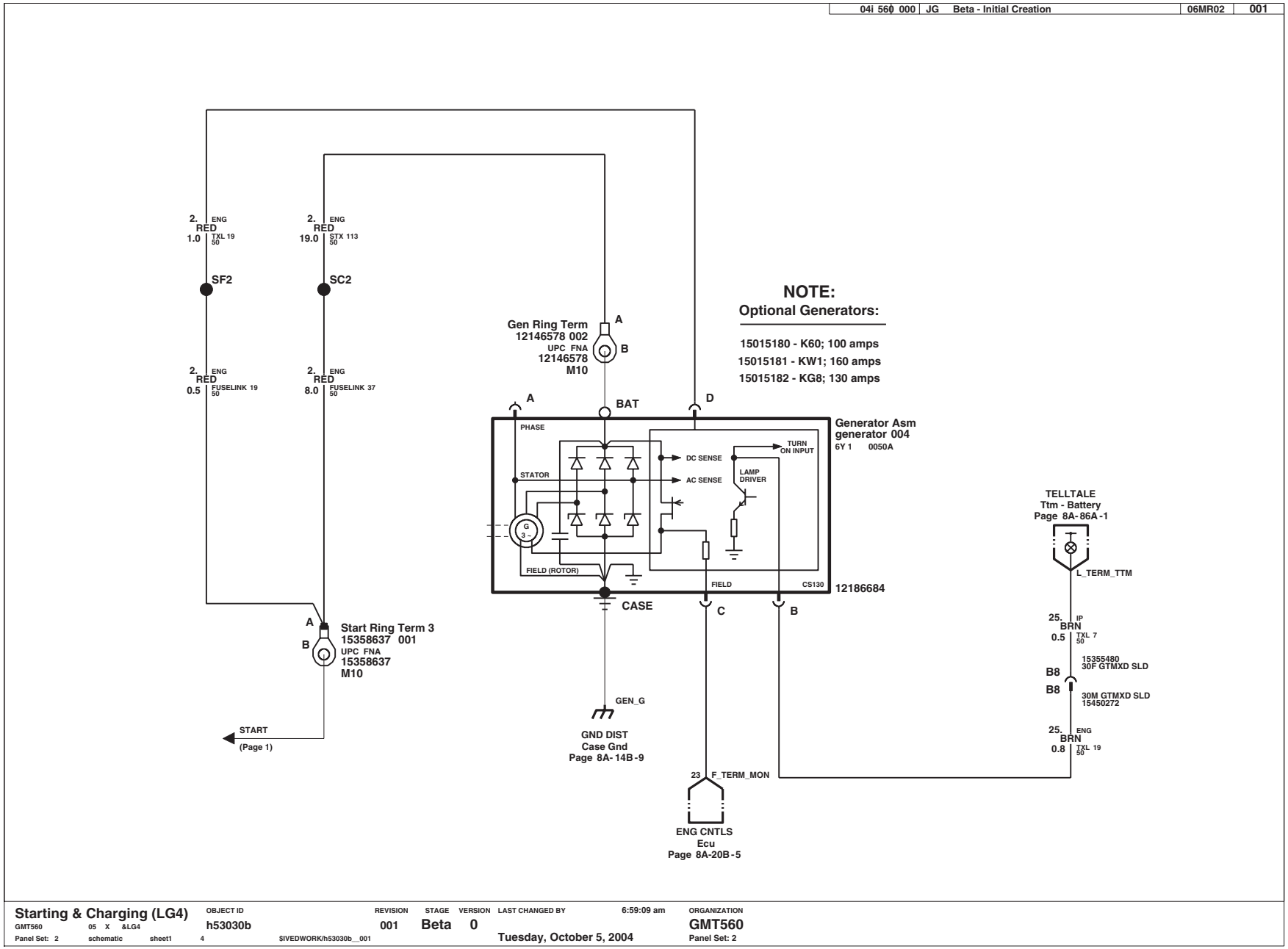
Starting & Charging — (L18) 8.1L-Gas/NAPT



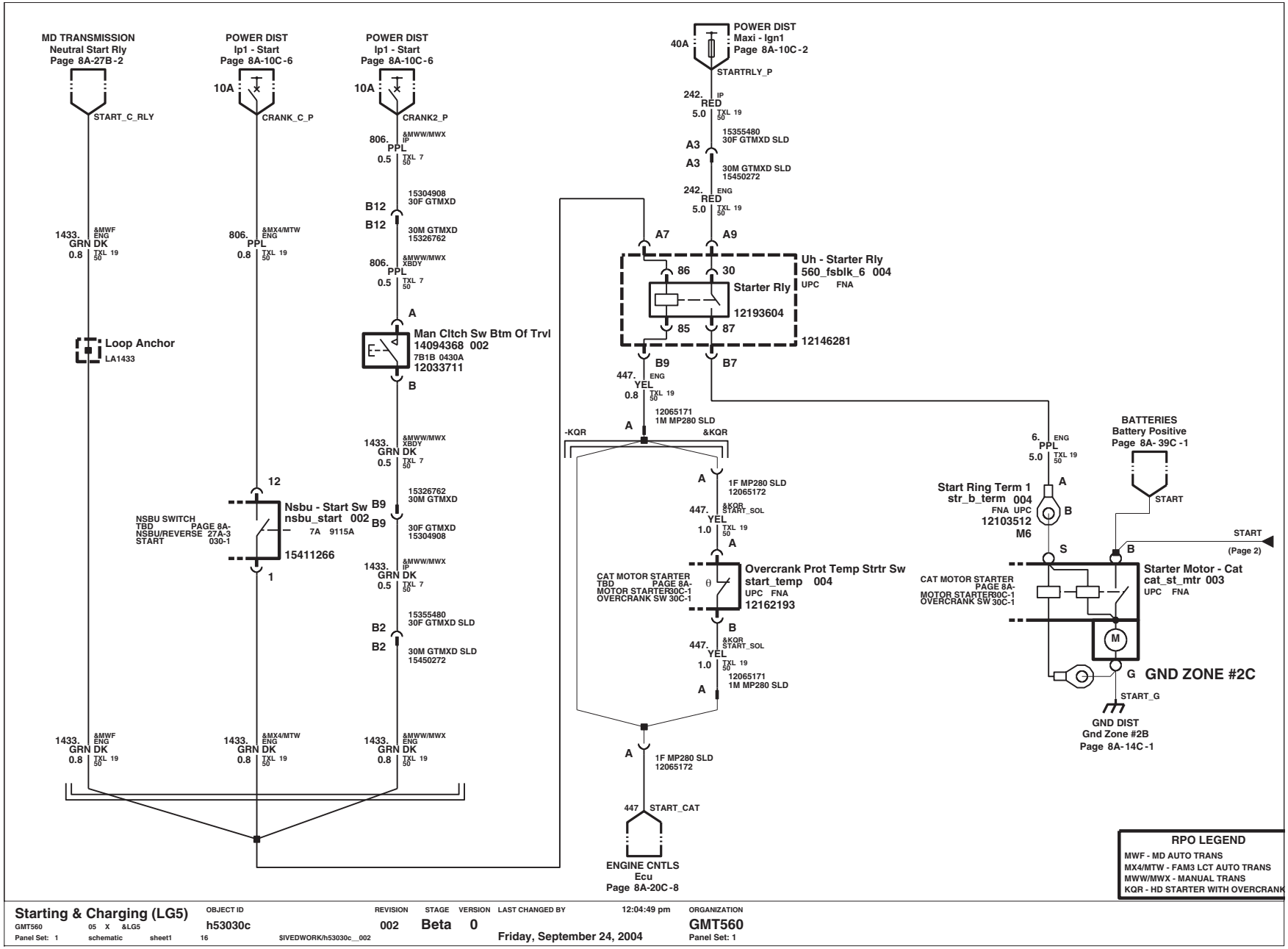
Starting & Charging — (LG4) 7.8L-Diesel/Duramax



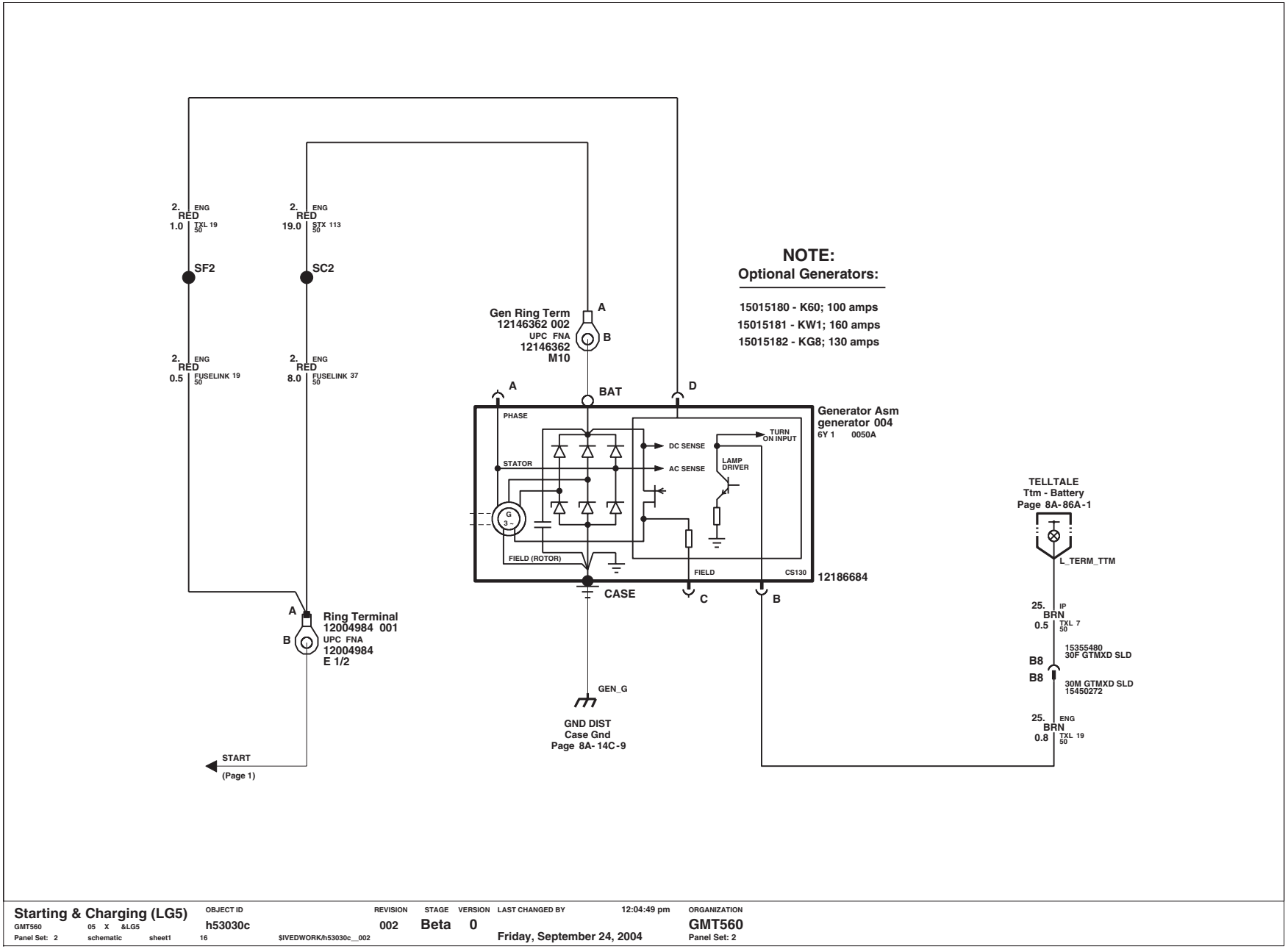
Starting & Charging — (LG4) 7.8L-Diesel/Duramax



Starting & Charging — (LG5) 7.2L CAT

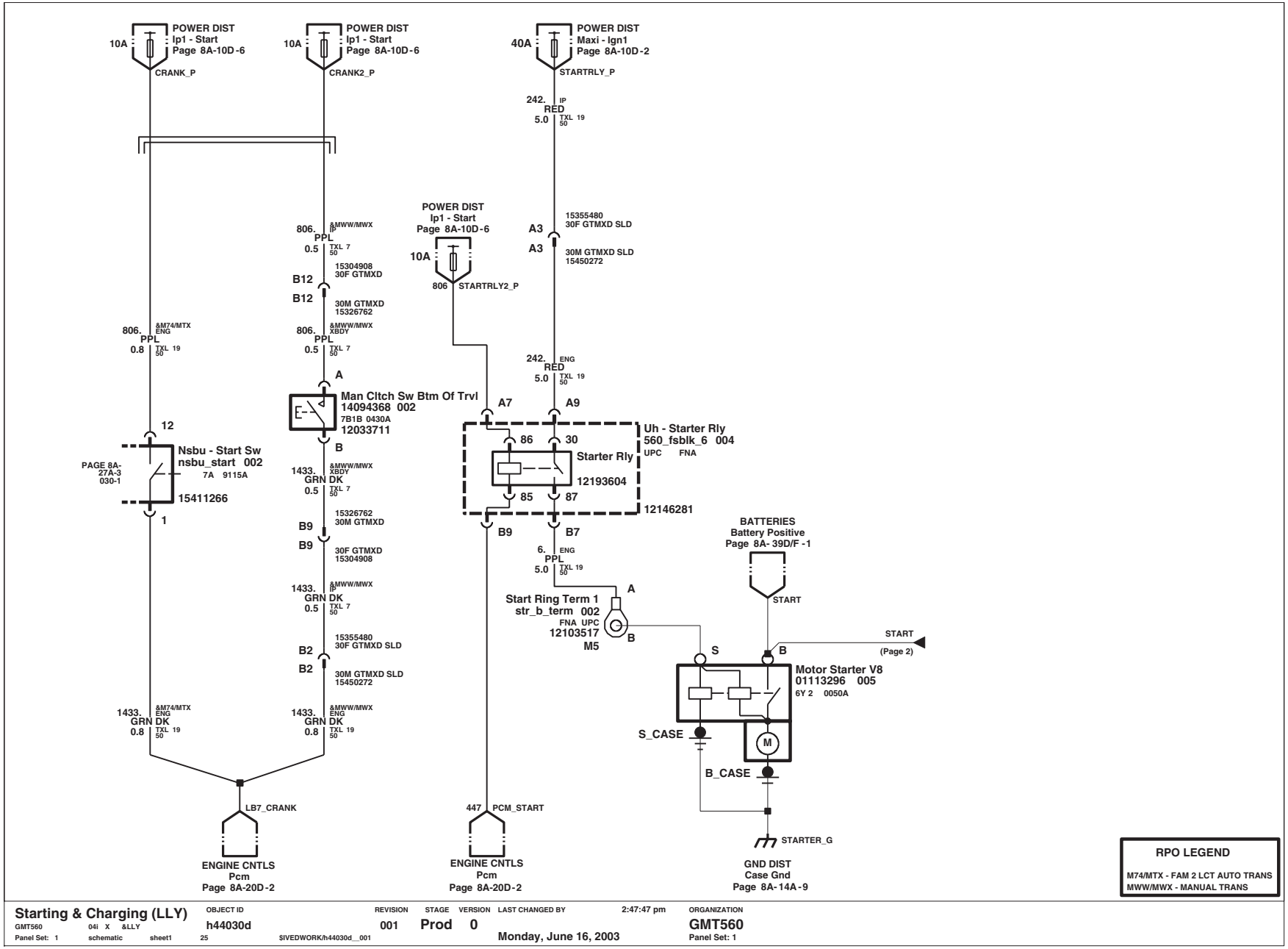


Starting & Charging — (LG5) 7.2L CAT



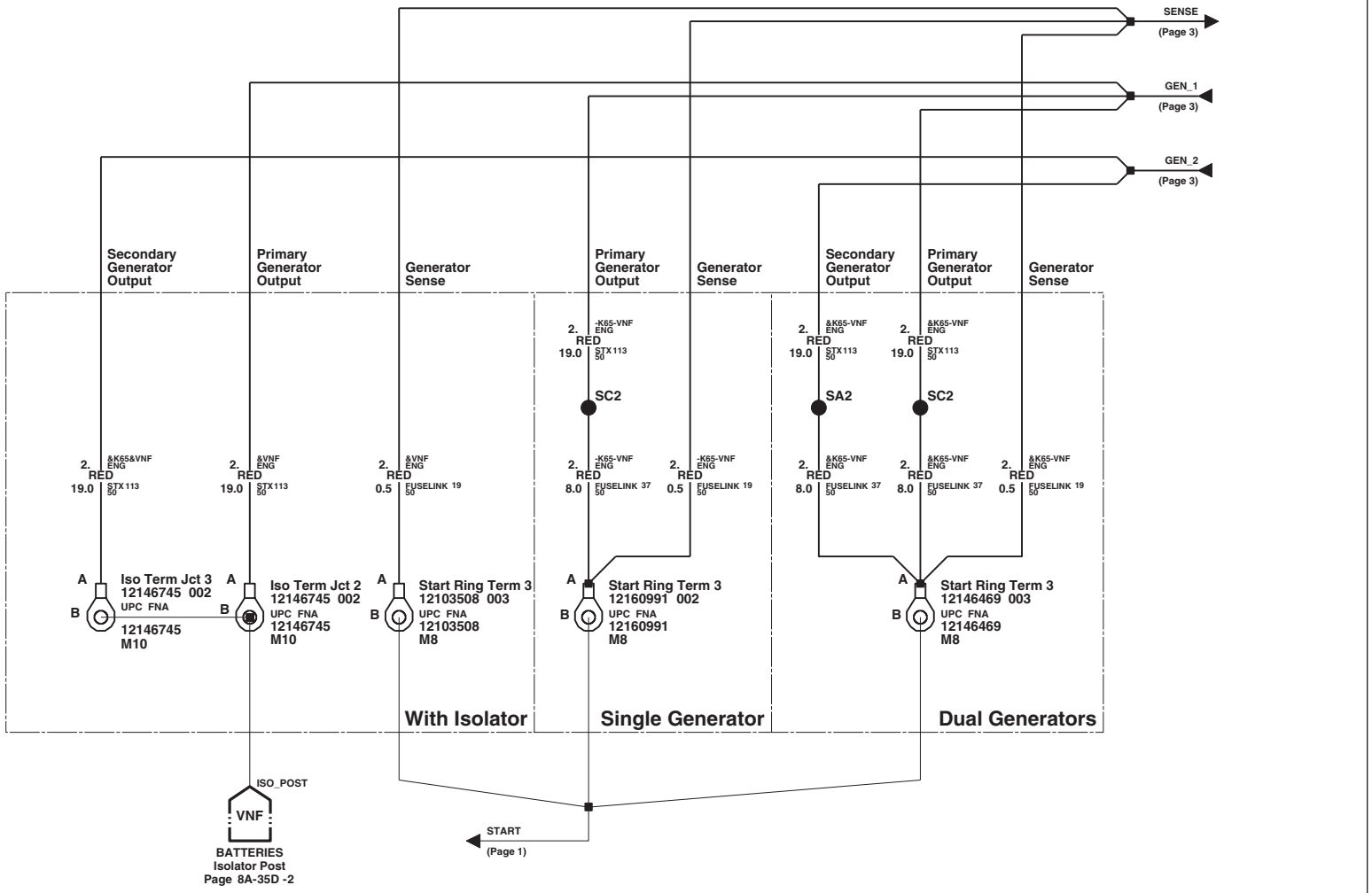
Starting & Charging (LG5)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY	12:04:49 pm	ORGANIZATION
GMT560 05 X &LG5	h53030c	002	Beta	0			GMT560
Panel Set: 2 schematic sheet1 16	$IVEDWORK/h53030c__002				Friday, September 24, 2004		Panel Set: 2

Starting & Charging — (LLY) 6.6L-Diesel/Duramax



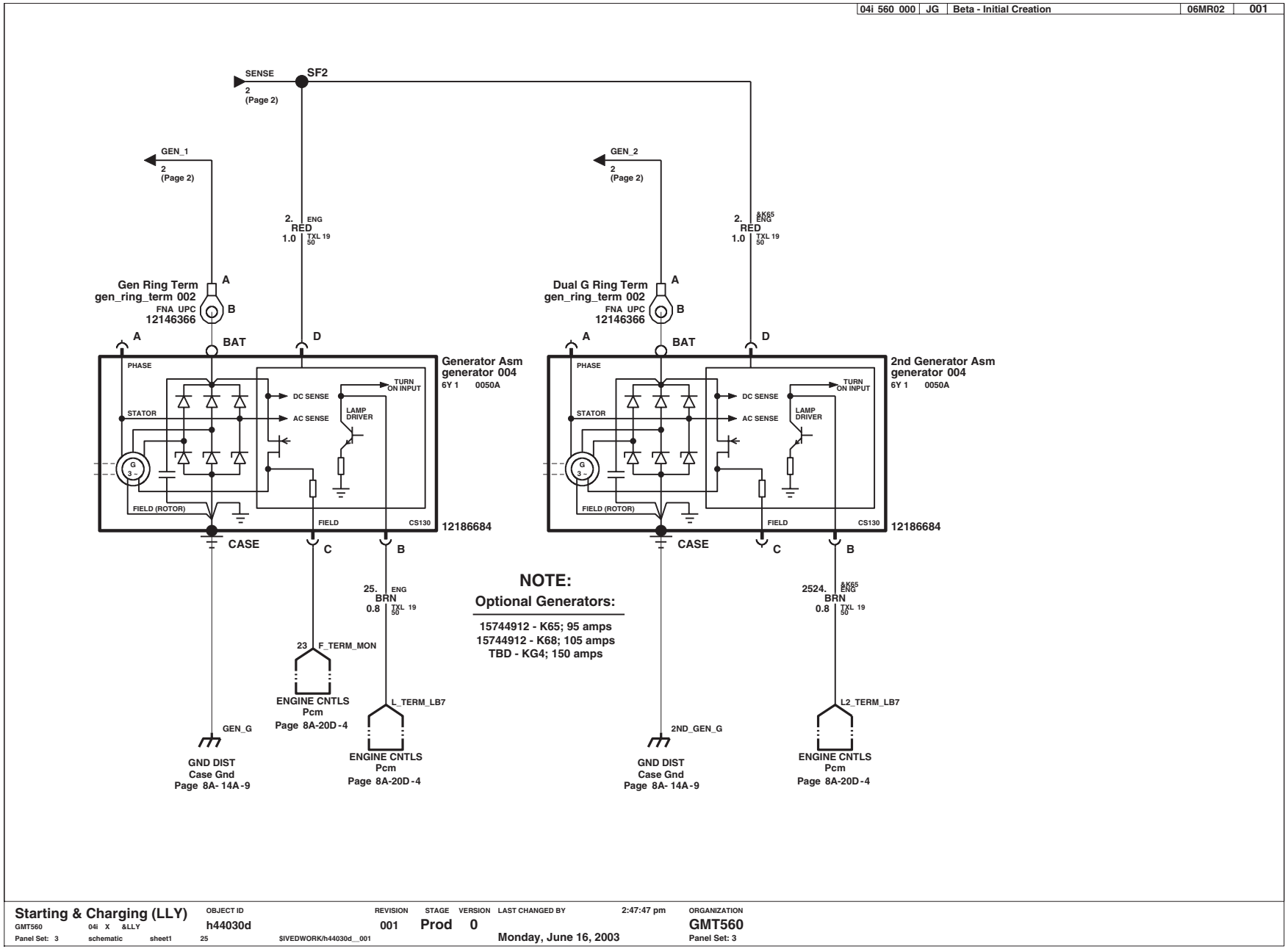
Starting & Charging (LLY)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY		ORGANIZATION
GMT560 04i X &LLY	h44030d	001	Prod	0	Monday, June 16, 2003	2:47:47 pm	GMT560
Panel Set: 1 schematic sheet1 25	$IVEDWORK/h44030d__001						Panel Set: 1

Starting & Charging — (LLY) 6.6L-Diesel/Duramax



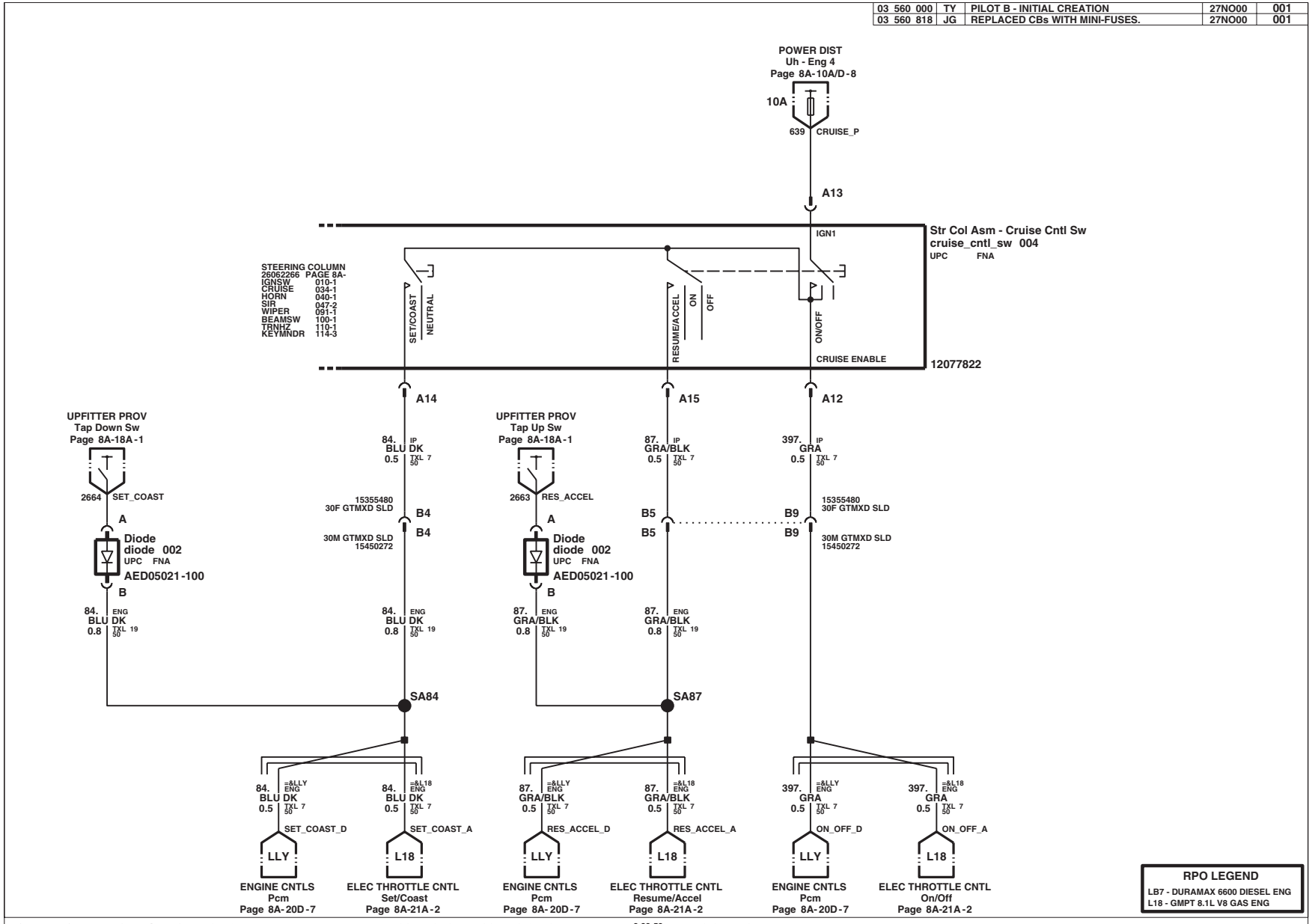
Starting & Charging (LLY)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY		ORGANIZATION
GMT560 04i X &LLY	h44030d	001	Prod	0		2:47:47 pm	GMT560
Panel Set: 2 schematic sheet1 25	$IVEDWORK/h44030d__001				Monday, June 16, 2003		Panel Set: 2

Starting & Charging — (LLY) 6.6L-Diesel/Duramax



Cruise Control — (L18) 8.1L-Gas/NAPT — (LLY) 6.6L-Diesel/Duramax

03 560 000	TY	PILOT B - INITIAL CREATION	27NO00	001
03 560 818	JG	REPLACED CBs WITH MINI-FUSES.	27NO00	001



Cruise Control (L18/LLY)

GMT560 03 X &L18/LLY Panel Set: 1 schematic sheet1 7

OBJECT ID h44034a

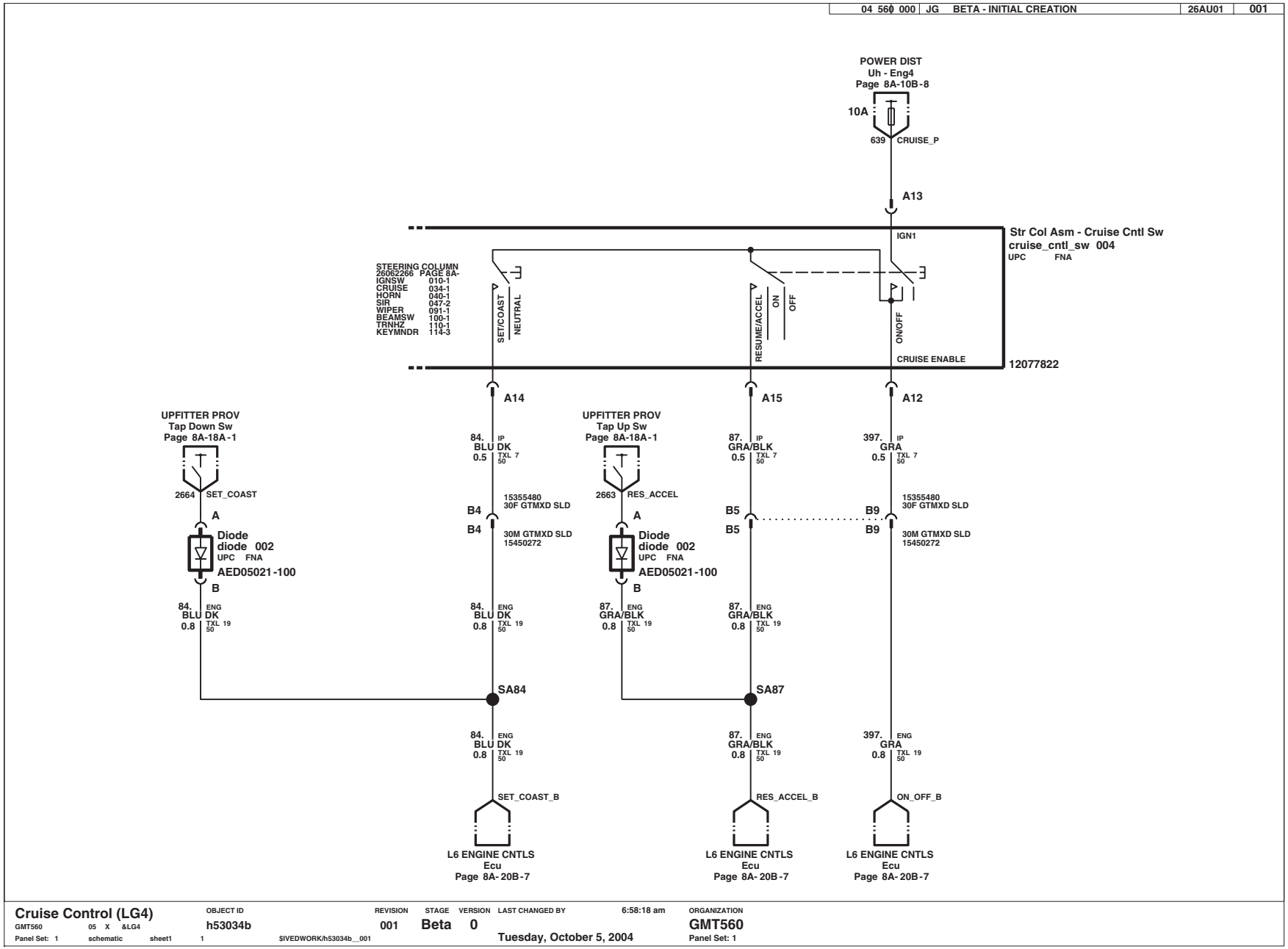
REVISION 001 STAGE Pilot VERSION B

LAST CHANGED BY $IVEDWORK/h44034a__001

2:32:59 pm Tuesday, June 17, 2003

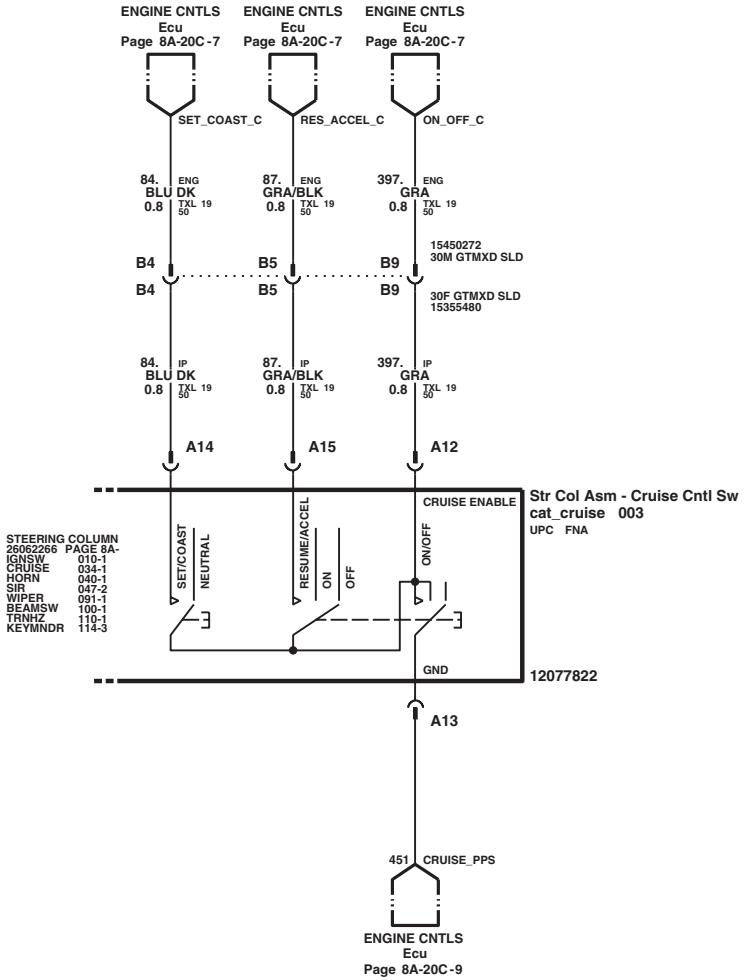
ORGANIZATION GMT560 Panel Set: 1

Cruise Control — (LG4) 7.8L-Diesel/Duramax



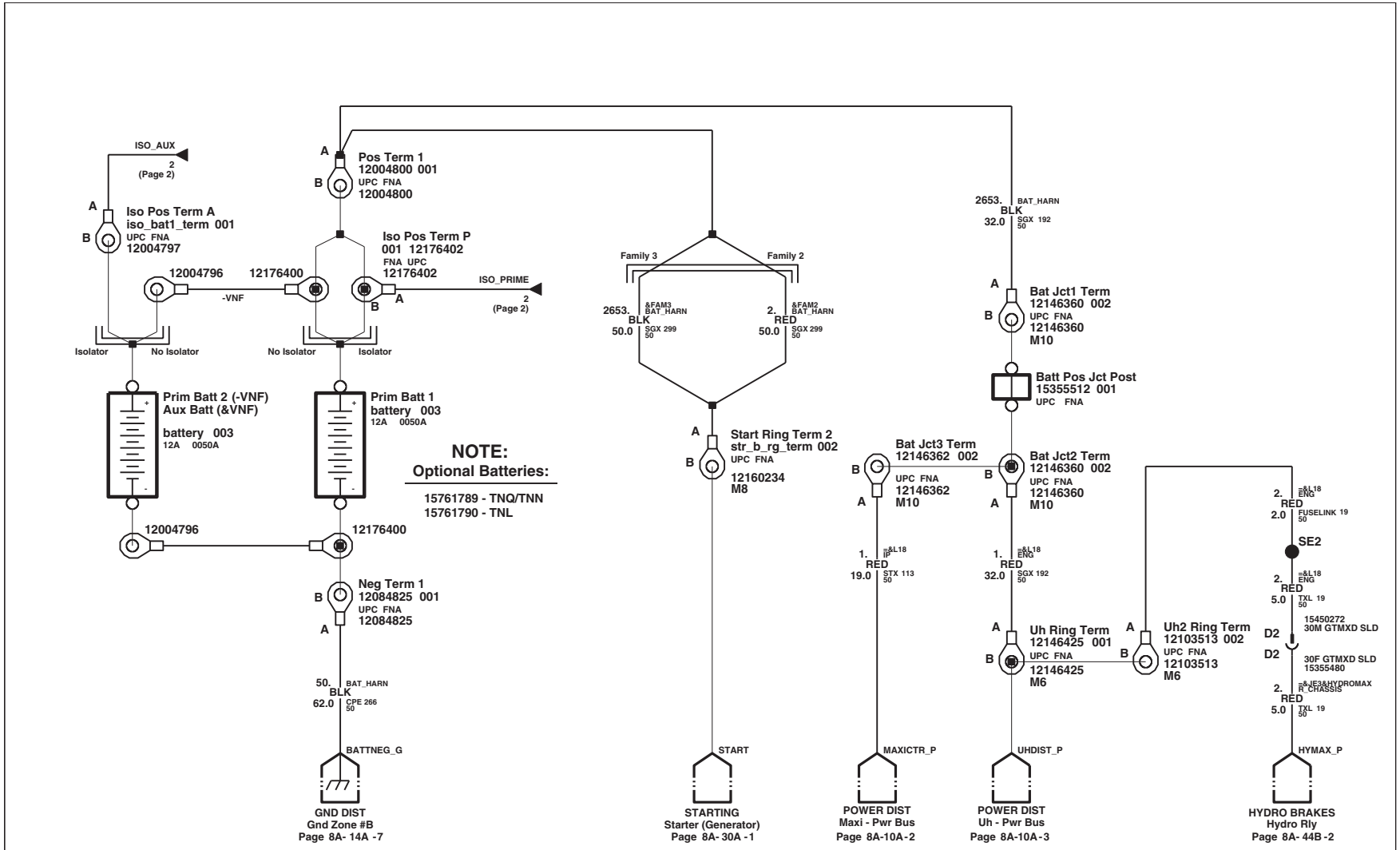
Cruise Control — (LG5) 7.2L CAT

03_560_000	JG	PILOT - INITIAL CREATION	09FE00	001



Cruise Control (LG5)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY		ORGANIZATION
GMT560 03 X &LG5	h44034c	001	Pilot	0		2:50:10 pm	GMT560
Panel Set: 1 schematic sheet1 1	$IVEDWORK/h44034c__001				Monday, June 16, 2003		Panel Set: 1

Batteries — (L18) 8.1L-Gas/NAPT (Top Post)



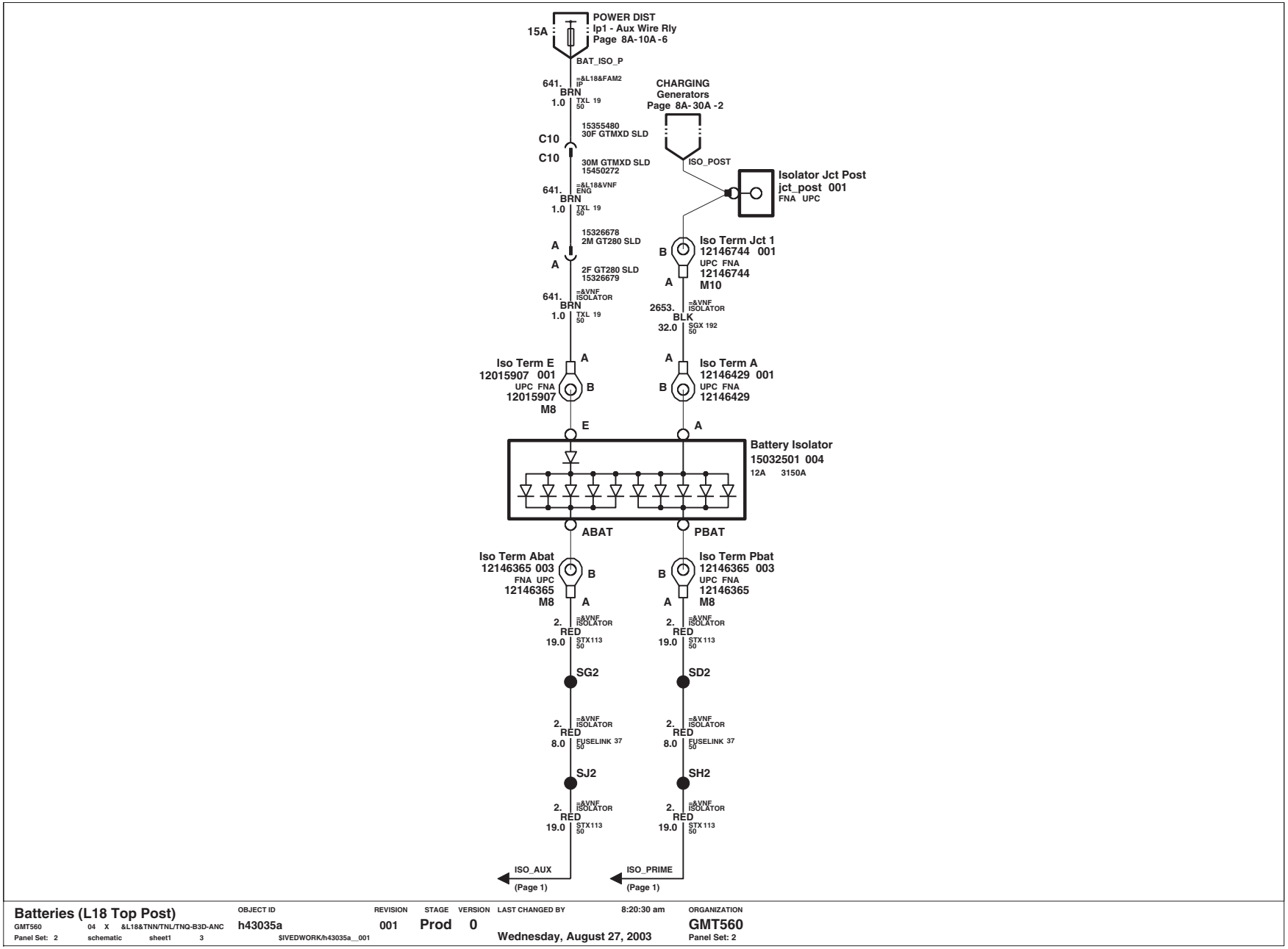
RPO LEGEND

TOP POST

TNL - DUAL BATT TYPE 1110 1500CCA
TNN - DUAL BATT TYPE 1150 1250CCA
TNQ&VNF - SINGLE BATT TYPE 1150 625CCA WITH ISOLATED AUXILLARY BATTERY

Batteries (L18 Top Post)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY	8:20:30 am	ORGANIZATION
GMT560 04 X &L18&TNN/TNL/TNQ-B3D-ANC	h43035a	001	Prod	0			GMT560
Panel Set: 1 schematic sheet1 3	$IVEDWORK/h43035a__001				Wednesday, August 27, 2003		Panel Set: 1

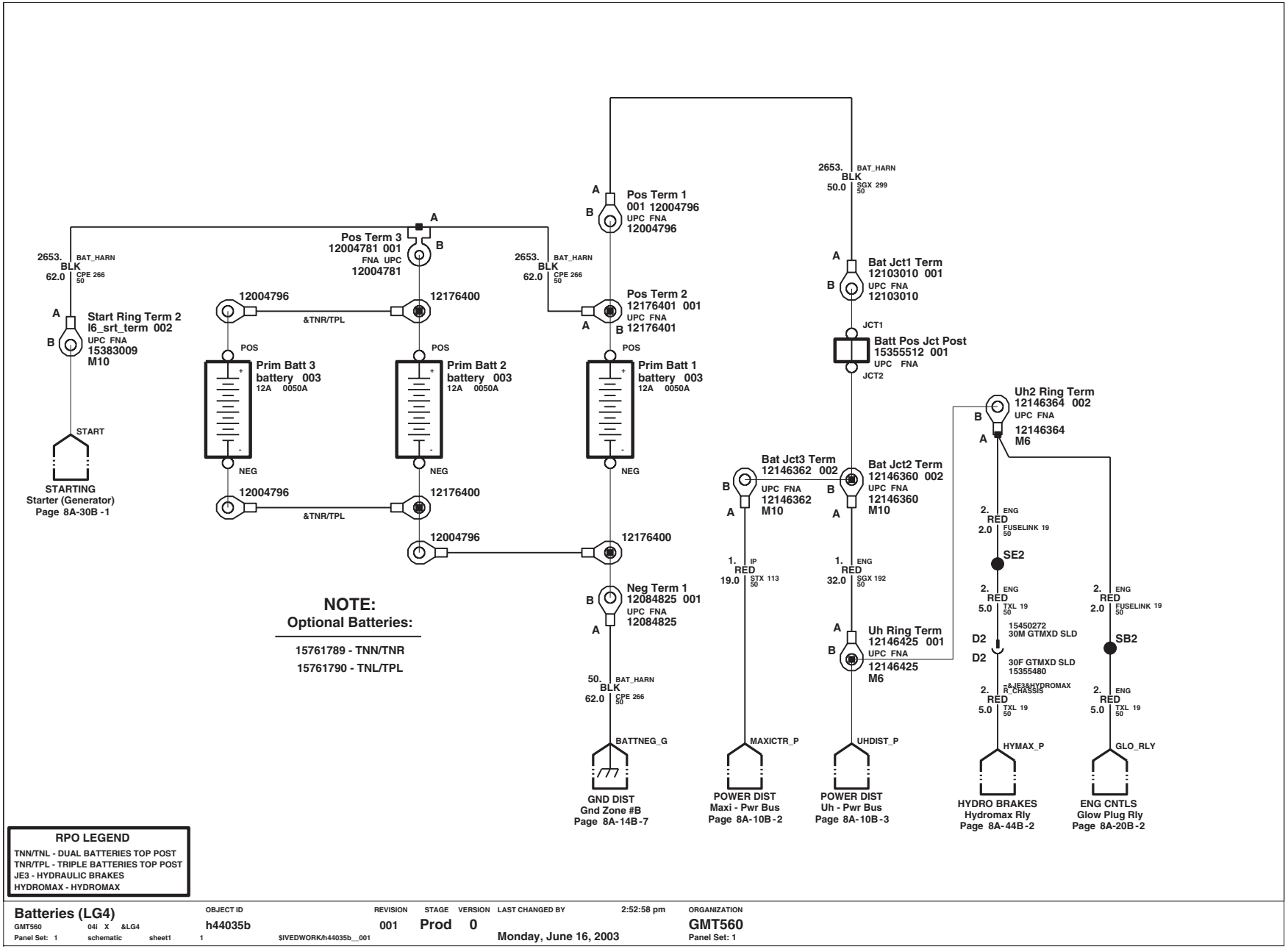
Batteries — (L18) 8.1L-Gas/NAPT (Top Post)



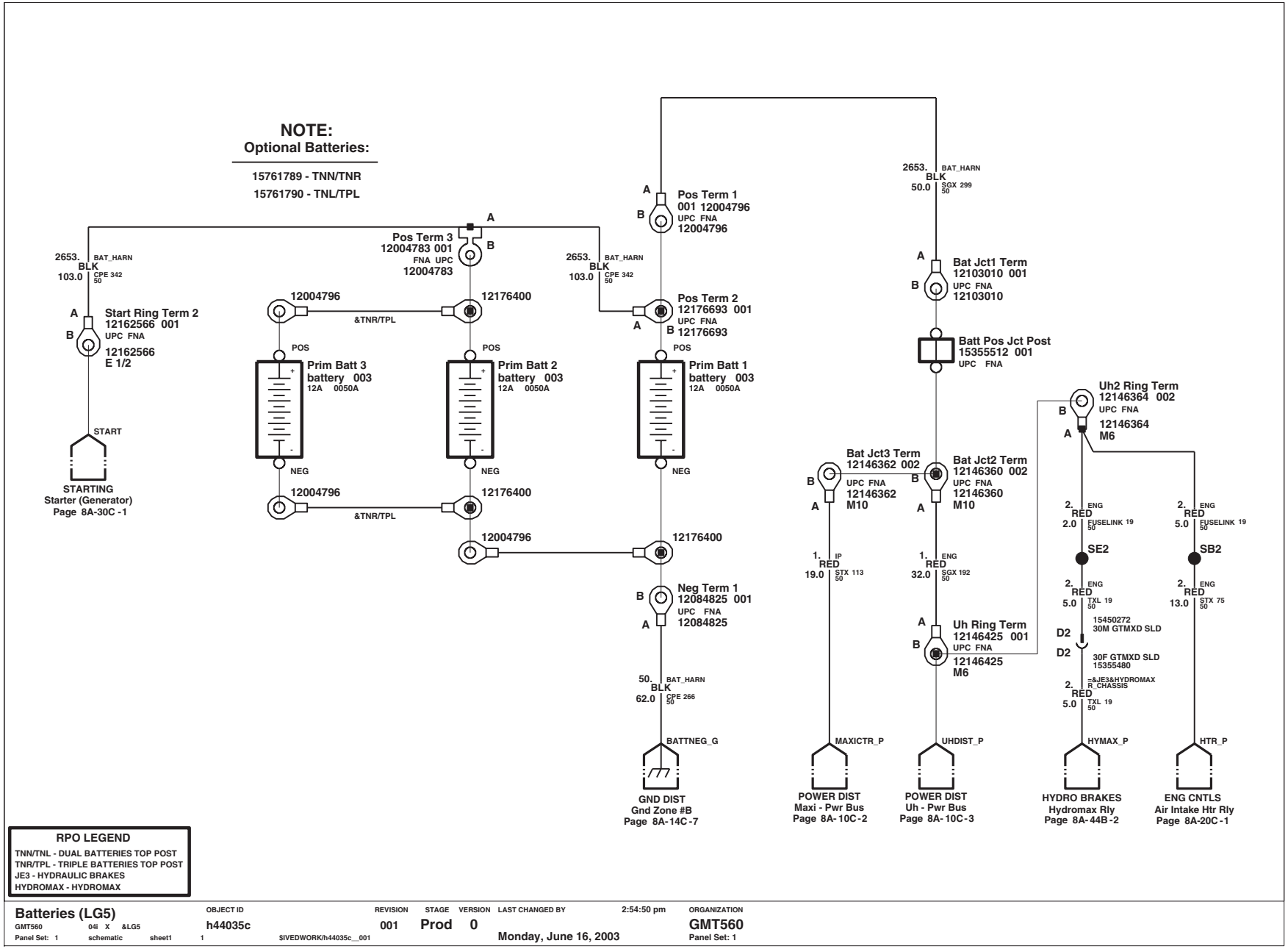
Batteries (L18 Top Post)
GMT560 04 X &L18&TNN/TNL/TNQ-B3D-ANC
Panel Set: 2 schematic sheet1 3

OBJECT ID: h43035a
REVISION: 001
STAGE: Prod
VERSION: 0
LAST CHANGED BY: $IVEDWORK/h43035a__001
8:20:30 am Wednesday, August 27, 2003
ORGANIZATION: GMT560
Panel Set: 2

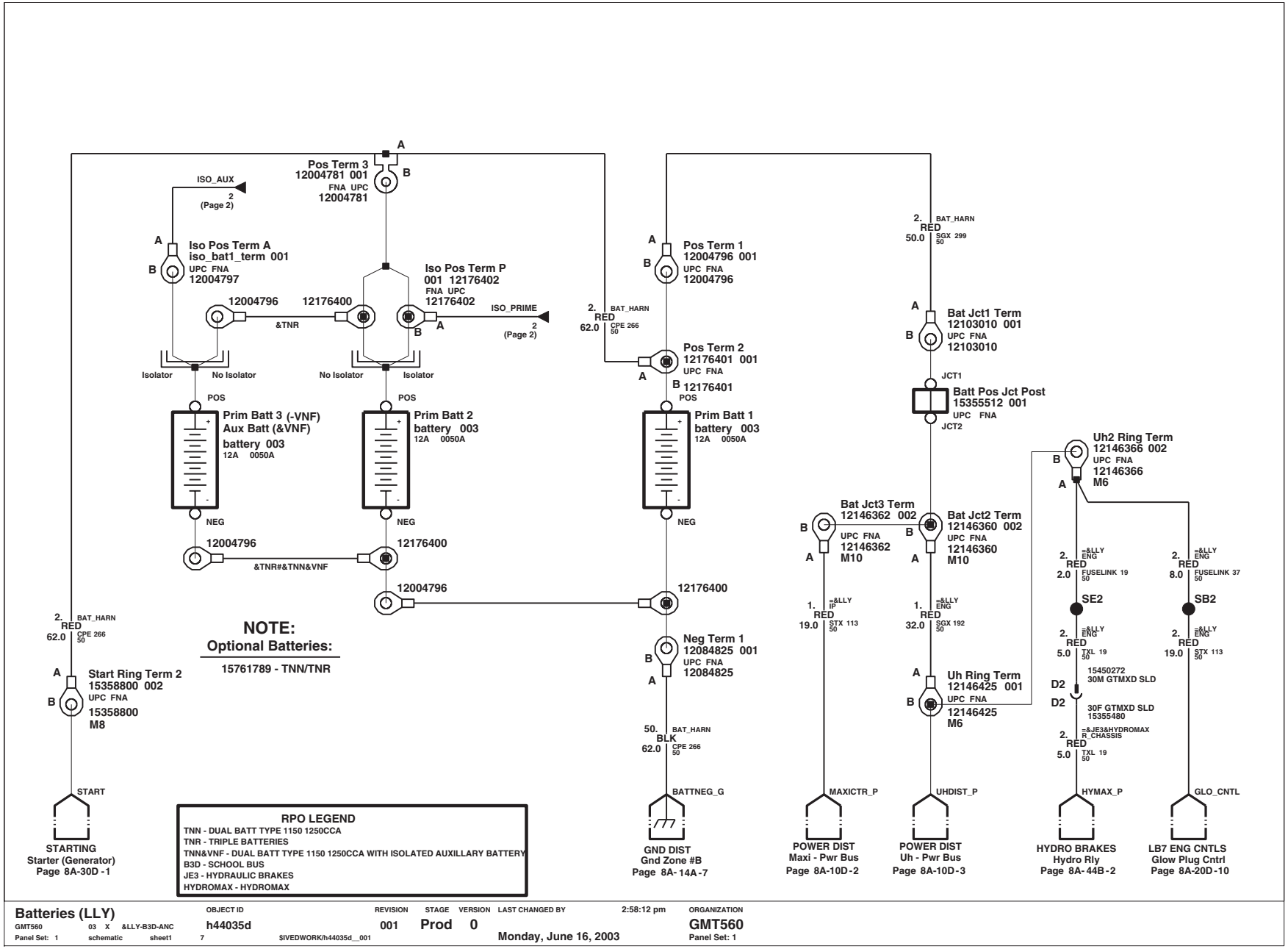
Batteries — (LG4) 7.8L-Diesel/Duramax


2653. BAT_HARN BLK 62.0 CPE 266 50
Start Ring Term 2 I6_srt_term 002 UPC FNA 15383009 M10
START
STARTING Starter (Generator) Page 8A-30B -1
Pos Term 3 12004781 001 FNA UPC 12004781
12004796
12176400
&TNR/TPL
POS
Prim Batt 3 battery 003 12A 0050A
Prim Batt 2 battery 003 12A 0050A
NEG
Pos Term 1 001 12004796 UPC FNA 12004796
Pos Term 2 12176401 001 UPC FNA 12176401
Prim Batt 1 battery 003 12A 0050A
Neg Term 1 12084825 001 UPC FNA 12084825
50. BAT_HARN BLK 62.0 CPE 266 50
BATTNEG_G
GND DIST Gnd Zone #B Page 8A-14B-7
2653. BAT_HARN BLK 50.0 SGX 299 50
Bat Jct1 Term 12103010 001 UPC FNA 12103010
JCT1
Batt Pos Jct Post 15355512 001 UPC FNA
JCT2
Bat Jct3 Term 12146362 002 UPC FNA 12146362 M10
Bat Jct2 Term 12146360 002 UPC FNA 12146360 M10
1. IP RED 19.0 STX 113 50
1. ENG RED 32.0 SGX 192 50
Uh Ring Term 12146425 001 UPC FNA 12146425 M6
MAXICTR_P
UHDIST_P
POWER DIST Maxi - Pwr Bus Page 8A-10B-2
POWER DIST Uh - Pwr Bus Page 8A-10B-3
Uh2 Ring Term 12146364 002 UPC FNA 12146364 M6
2. ENG RED 2.0 FUSELINK 19 50
SE2
2. ENG RED 5.0 TXL 19 50
15450272 30M GTMXD SLD
D2
30F GTMXD SLD 15355480
=A-JE3&HYDROMAX R_CHASSIS
HYMAX_P
HYDRO BRAKES Hydromax Rly Page 8A-44B-2
2. ENG RED 2.0 FUSELINK 19 50
SB2
2. ENG RED 5.0 TXL 19 50
GLO_RLY
ENG CNTLS Glow Plug Rly Page 8A-20B-2
NOTE:
Optional Batteries:
15761789 - TNN/TNR
15761790 - TNL/TPL
RPO LEGEND
TNN/TNL - DUAL BATTERIES TOP POST
TNR/TPL - TRIPLE BATTERIES TOP POST
JE3 - HYDRAULIC BRAKES
HYDROMAX - HYDROMAX
Batteries (LG4)
GMT560 04i X &LG4
Panel Set: 1 schematic sheet1 1
OBJECT ID h44035b
REVISION 001
STAGE Prod
VERSION 0
LAST CHANGED BY
2:52:58 pm
Monday, June 16, 2003
$IVEDWORK/h44035b__001
ORGANIZATION GMT560
Panel Set: 1

Batteries — (LG5) 7.2L CAT

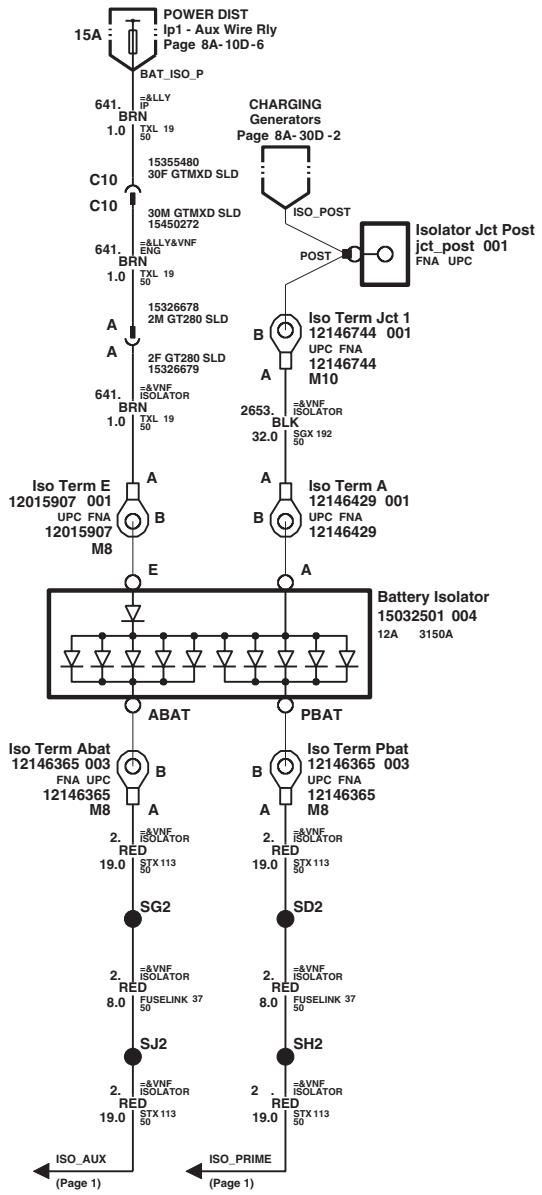


Batteries — (LLY) 6.6L-Diesel/Duramax



Batteries — (LLY) 6.6L-Diesel/Duramax

03 560 000	TY	PILOT B - INITIAL CREATION	27NO00	001
03 560 981	JG	Add Family 2 School Bus Content	03AP01	001
03 560 1142	JG	Battery Cable Updates	30NO01	001
03 560 000	JG	Production - Split from h22030	22FE02	001
03 560 1228	JG	Added RPO ANC	07MY02	001



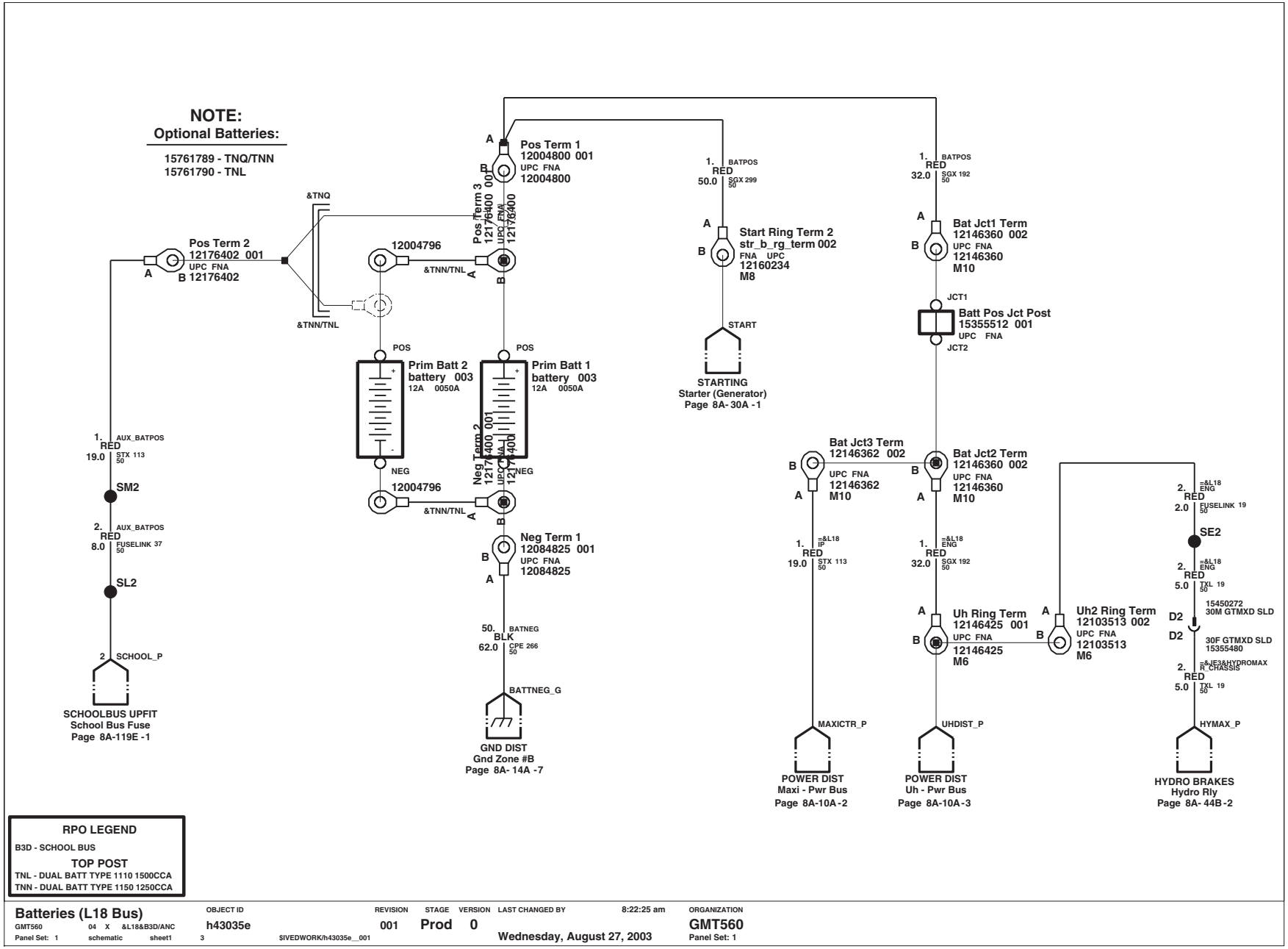
Batteries (LLY)

OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY		ORGANIZATION
h44035d	001	X	0	Monday, June 16, 2003	2:58:12 pm	GMT560

GMT560 03 X &LLY-B3D-ANC Panel Set: 2 schematic sheet1 7 $IVEDWORK/h44035d__001

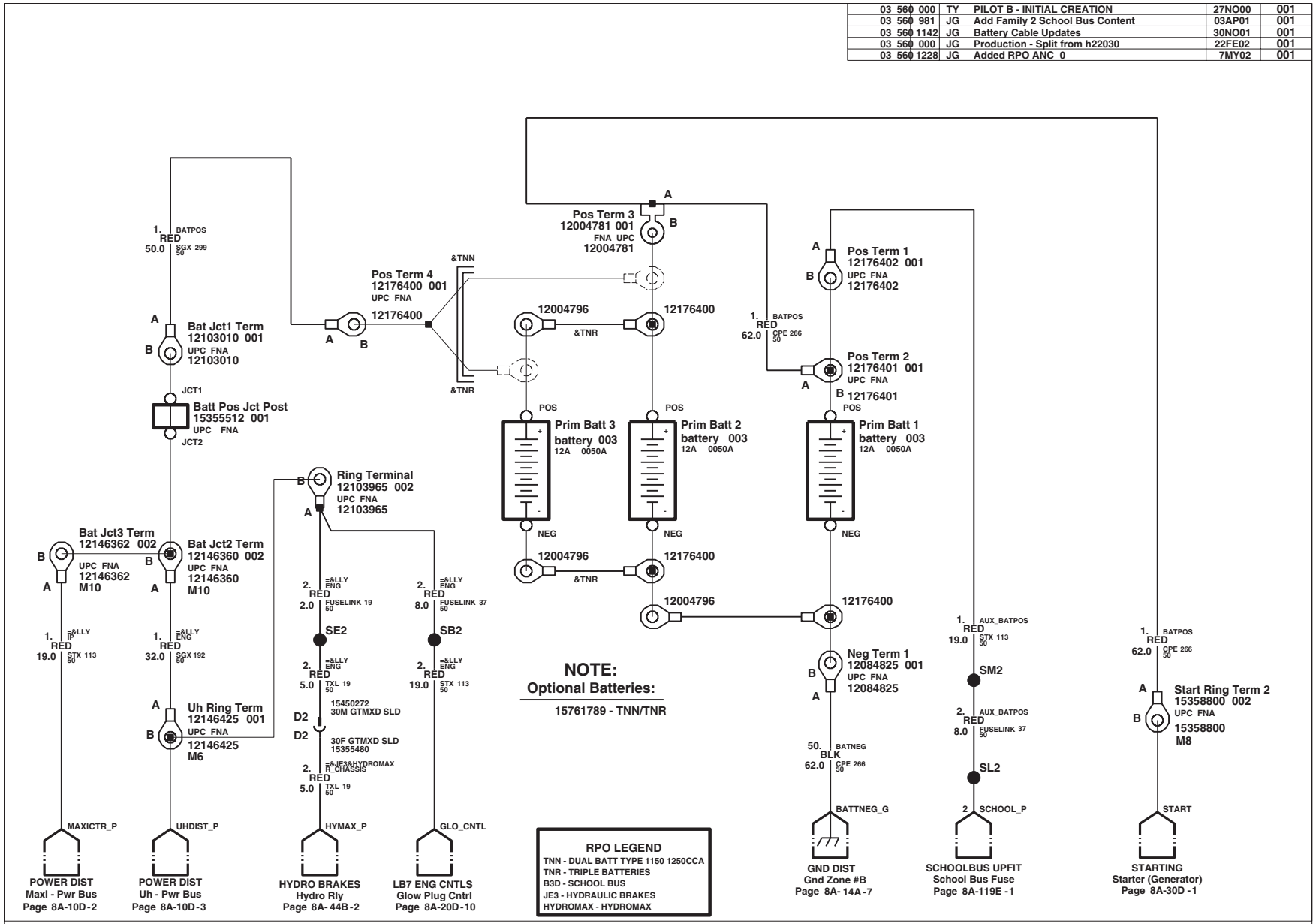
Panel Set: 2

Batteries Bus — (L18) 8.1L-Gas/NAPT



Batteries Bus — (LLY) 6.6L-Diesel/Duramax

03 560 000	TY	PILOT B - INITIAL CREATION	27NO00	001
03 560 981	JG	Add Family 2 School Bus Content	03AP01	001
03 560 1142	JG	Battery Cable Updates	30NO01	001
03 560 000	JG	Production - Split from h22030	22FE02	001
03 560 1228	JG	Added RPO ANC 0	7MY02	001

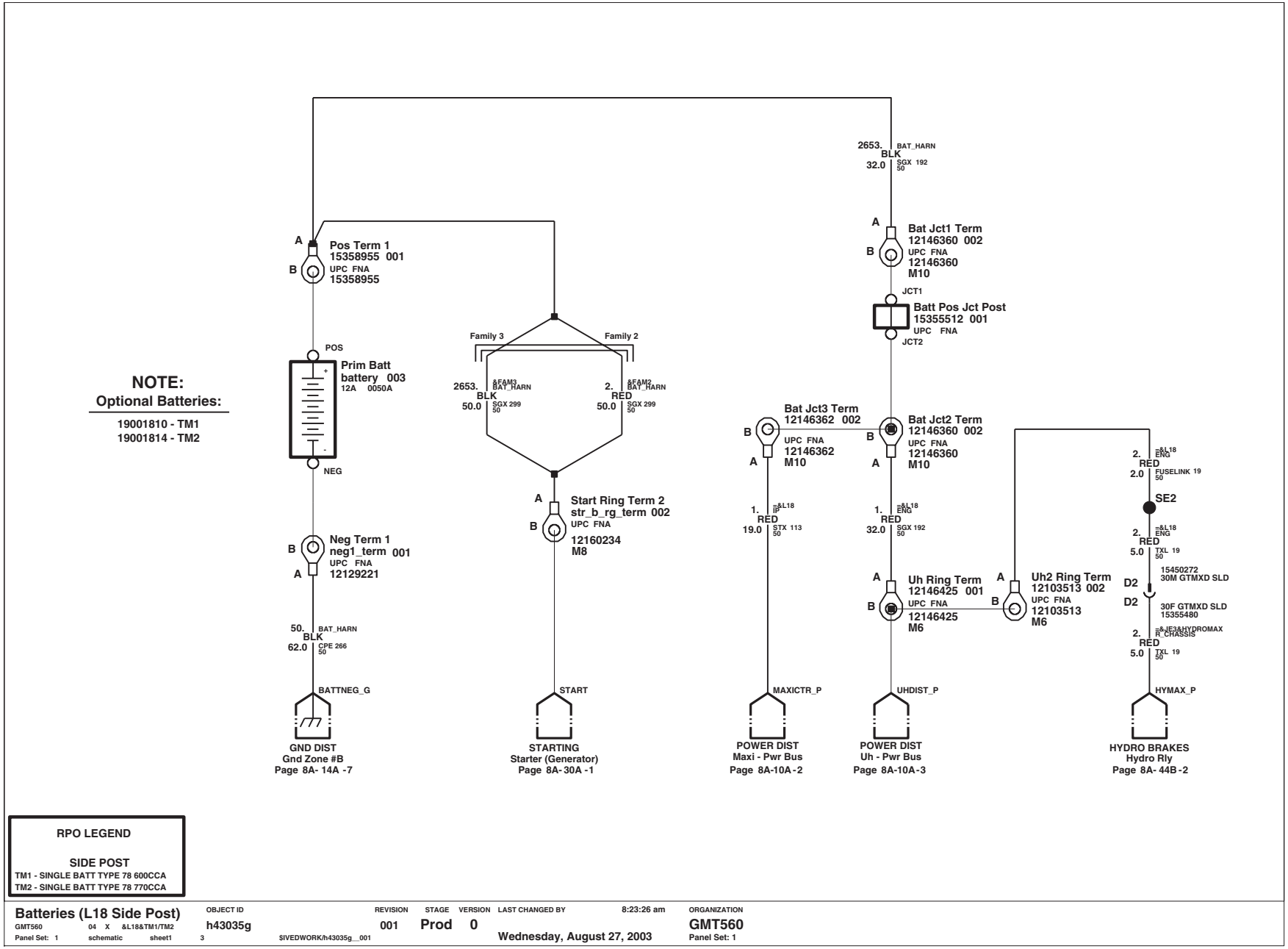


Batteries (LLY Bus)

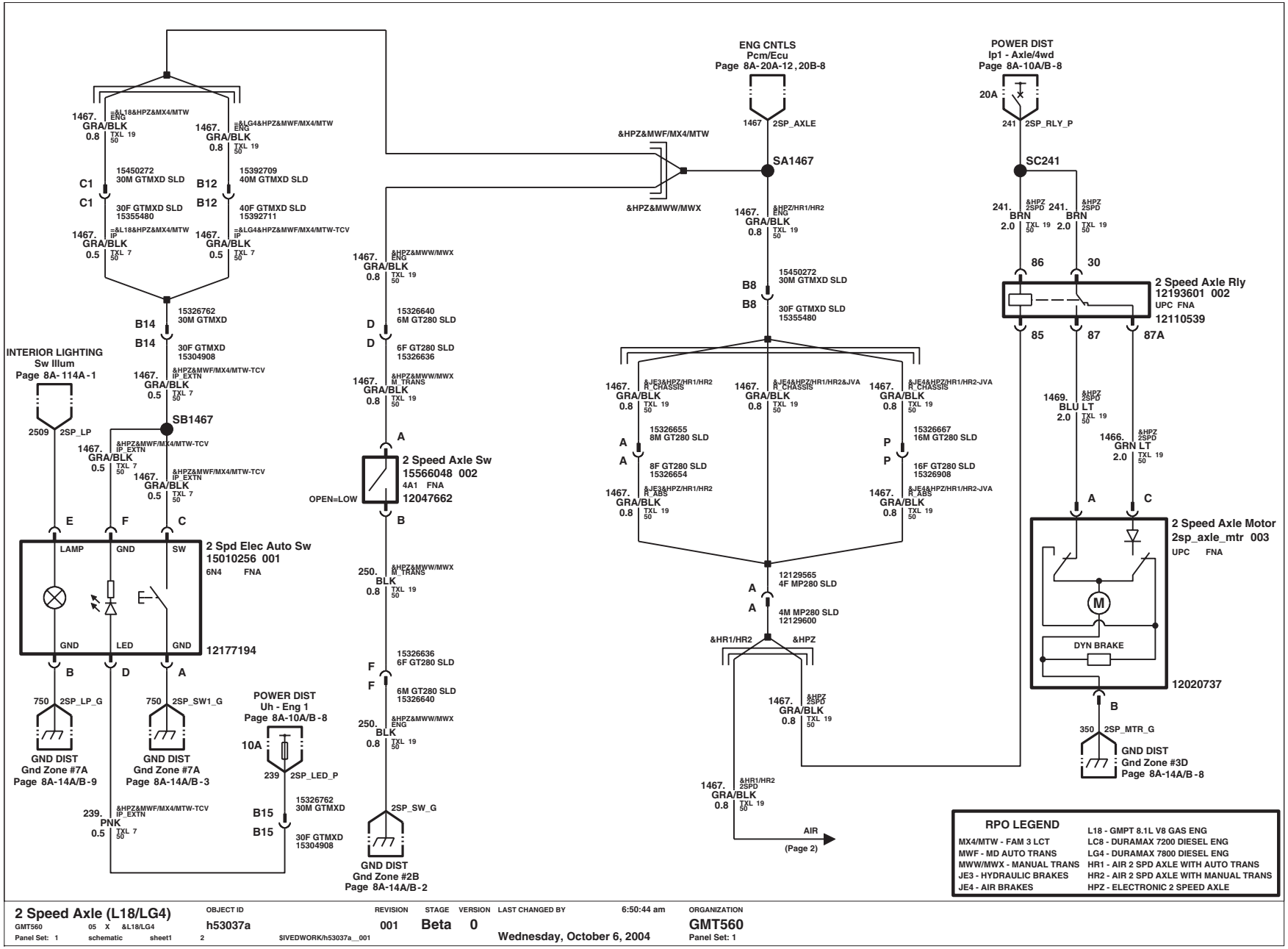
OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY		ORGANIZATION
h44035f	001	Prod	0	Monday, March 22, 2004	8:16:12 am	GMT560

GMT560 03 X &LLY&B3D/ANC — Panel Set: 1 — schematic — sheet1 — 14 — $IVEDWORK/h44035f__001 — Panel Set: 1

Batteries — (L18) 8.1L-Gas/NAPT (Side Post)



Two-Speed Axle — (L18) 8.1L-Gas/NAPT — (LG4) 7.8L-Diesel/Duramax



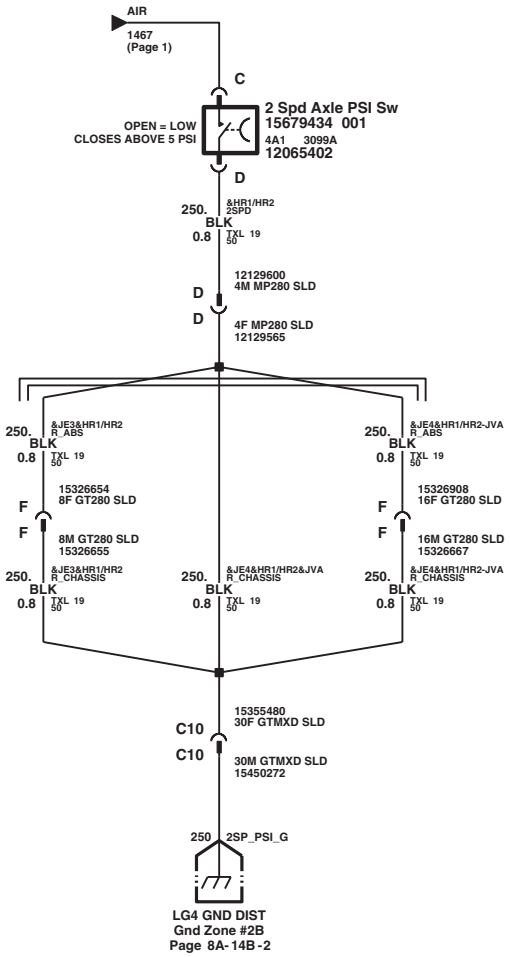
2 Speed Axle (L18/LG4)

OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY		ORGANIZATION
h53037a	001	Beta	0	Wednesday, October 6, 2004	6:50:44 am	GMT560

GMT560 05 X &L18/LG4 Panel Set: 1 schematic sheet1 2 $IVEDWORK/h53037a__001 Panel Set: 1

Two-Speed Axle — (L18) 8.1L-Gas/NAPT — (LG4) 7.8L-Diesel/Duramax

04 560 000	JG	Beta - Initial Creation	02JA02	001
04 560 1106	JG	900 Circuit Number Updates	08FE02	001
04 560 1228	JG	Add ABS delete option	03MY02	001



RPO LEGEND

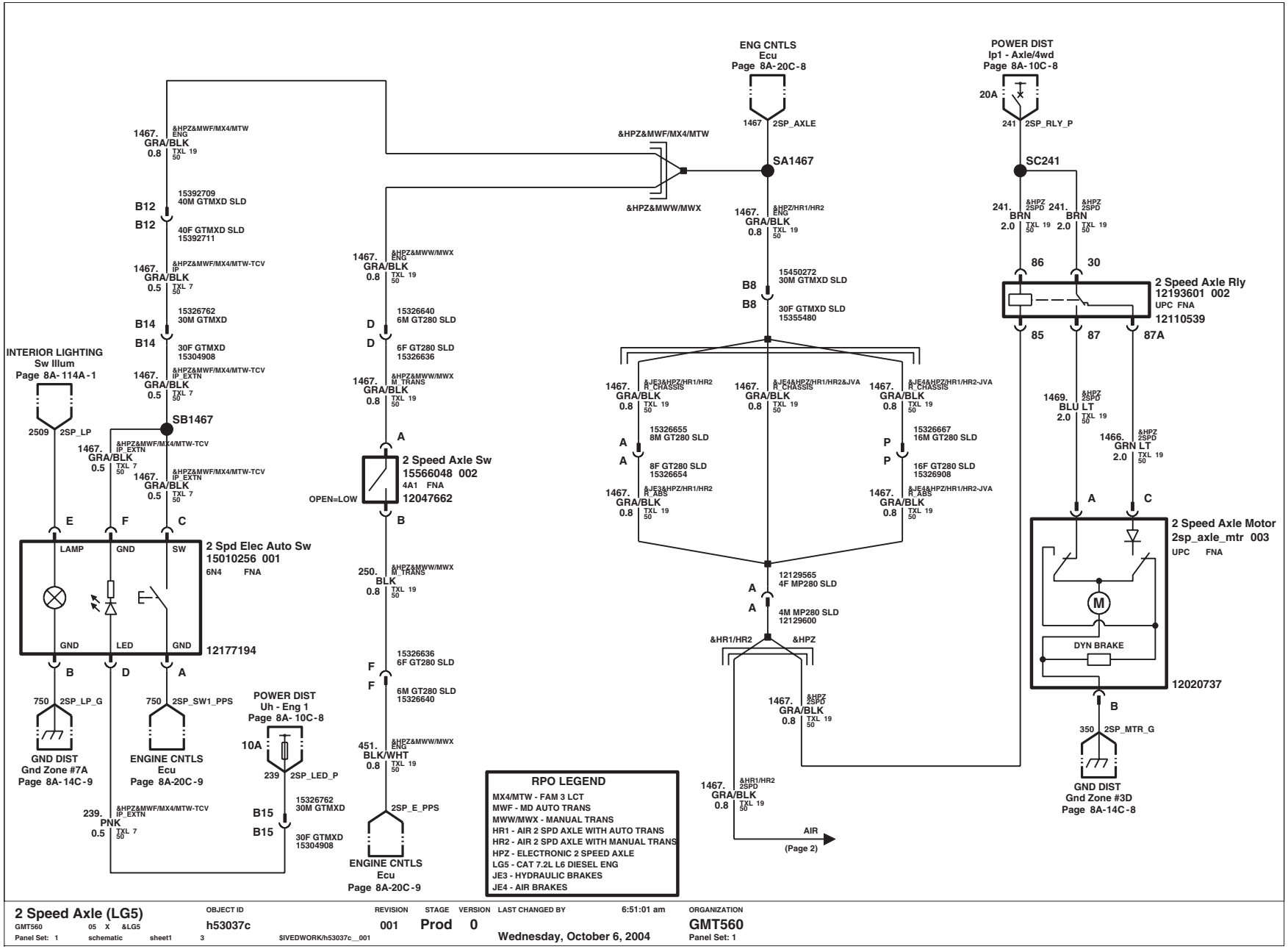
HR1 - AIR 2 SPD AXLE WITH AUTO TRANS
HR2 - AIR 2 SPD AXLE WITH MANUAL TRANS
HPZ - ELECTRONIC 2 SPEED AXLE
JE3 - HYDRAULIC BRAKES
JE4 - AIR BRAKES

2 Speed Axle (L18/LG4)

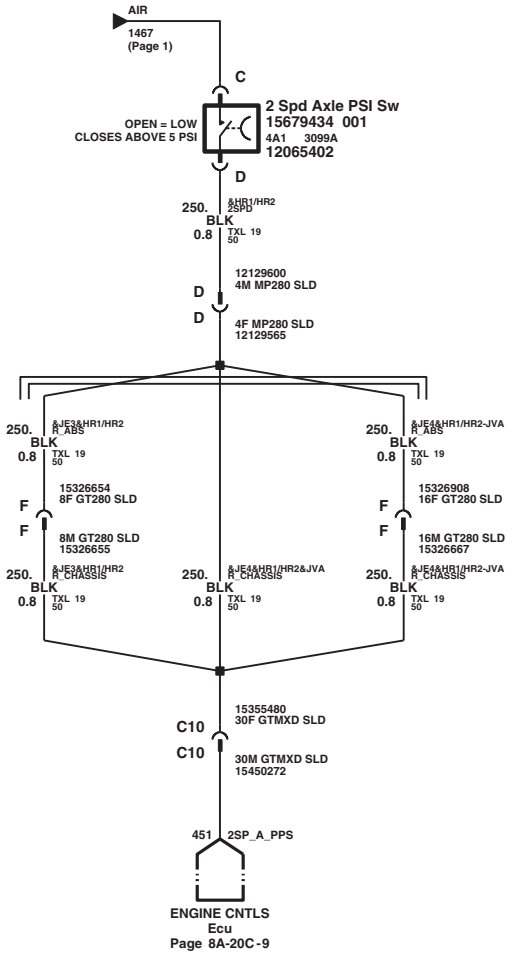
OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY		ORGANIZATION
h53037a	001	Beta	0		6:50:44 am	GMT560

GMT560 05 X &L18/LG4 — Panel Set: 2 — schematic — sheet1 2 — $IVEDWORK/h53037a__001 — Wednesday, October 6, 2004 — Panel Set: 2

Two-Speed Axle — (LG5) 7.2L CAT



Two-Speed Axle — (LG5) 7.2L CAT

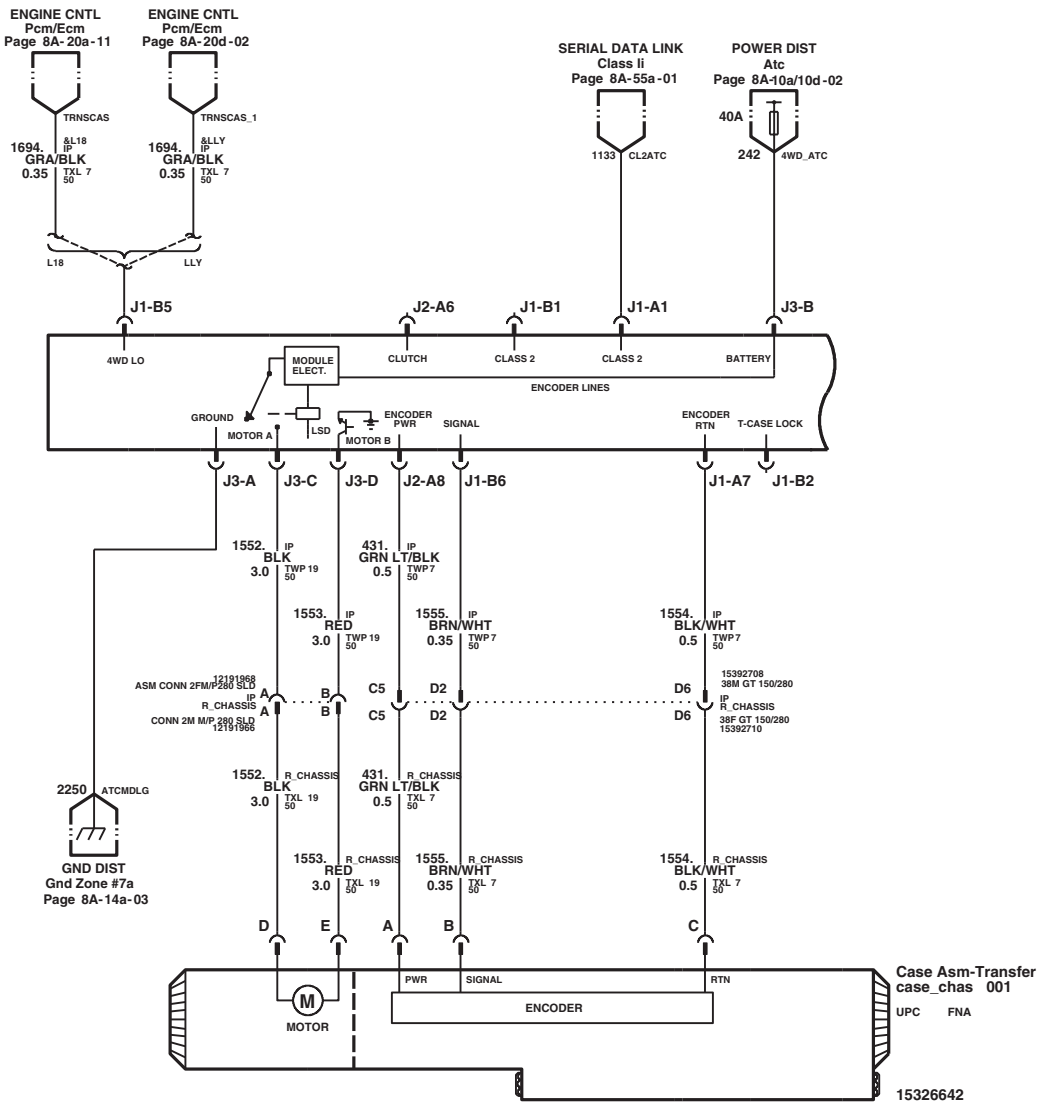


RPO LEGEND

HR1 - AIR 2 SPD AXLE WITH AUTO TRANS
HR2 - AIR 2 SPD AXLE WITH MANUAL TRANS
HPZ - ELECTRONIC 2 SPEED AXLE
JE3 - HYDRAULIC BRAKES
JE4 - AIR BRAKES

2 Speed Axle (LG5)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY	6:51:01 am	ORGANIZATION
GMT560 05 X &LG5	h53037c	001	Prod	0			GMT560
Panel Set: 2 schematic sheet1 3	$IVEDWORK/h53037c__001				Wednesday, October 6, 2004		Panel Set: 2

Active Transfer Case



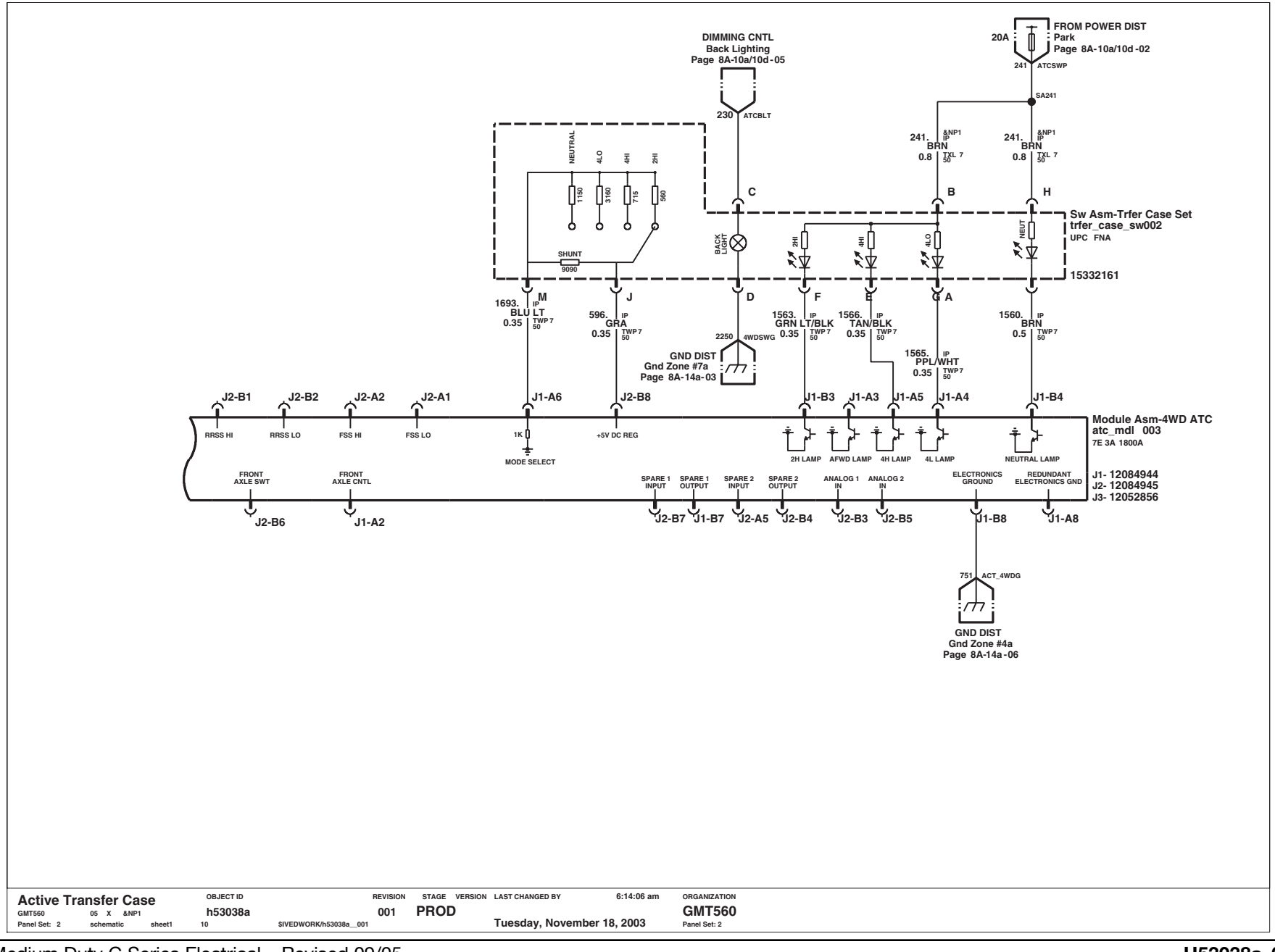
Active Transfer Case
GMT560 05 X &NP1
Panel Set: 1 schematic sheet1 10

OBJECT ID h53038a
$IVEDWORK/h53038a__001

REVISION 001
STAGE PROD
VERSION
LAST CHANGED BY
6:14:06 am
Tuesday, November 18, 2003

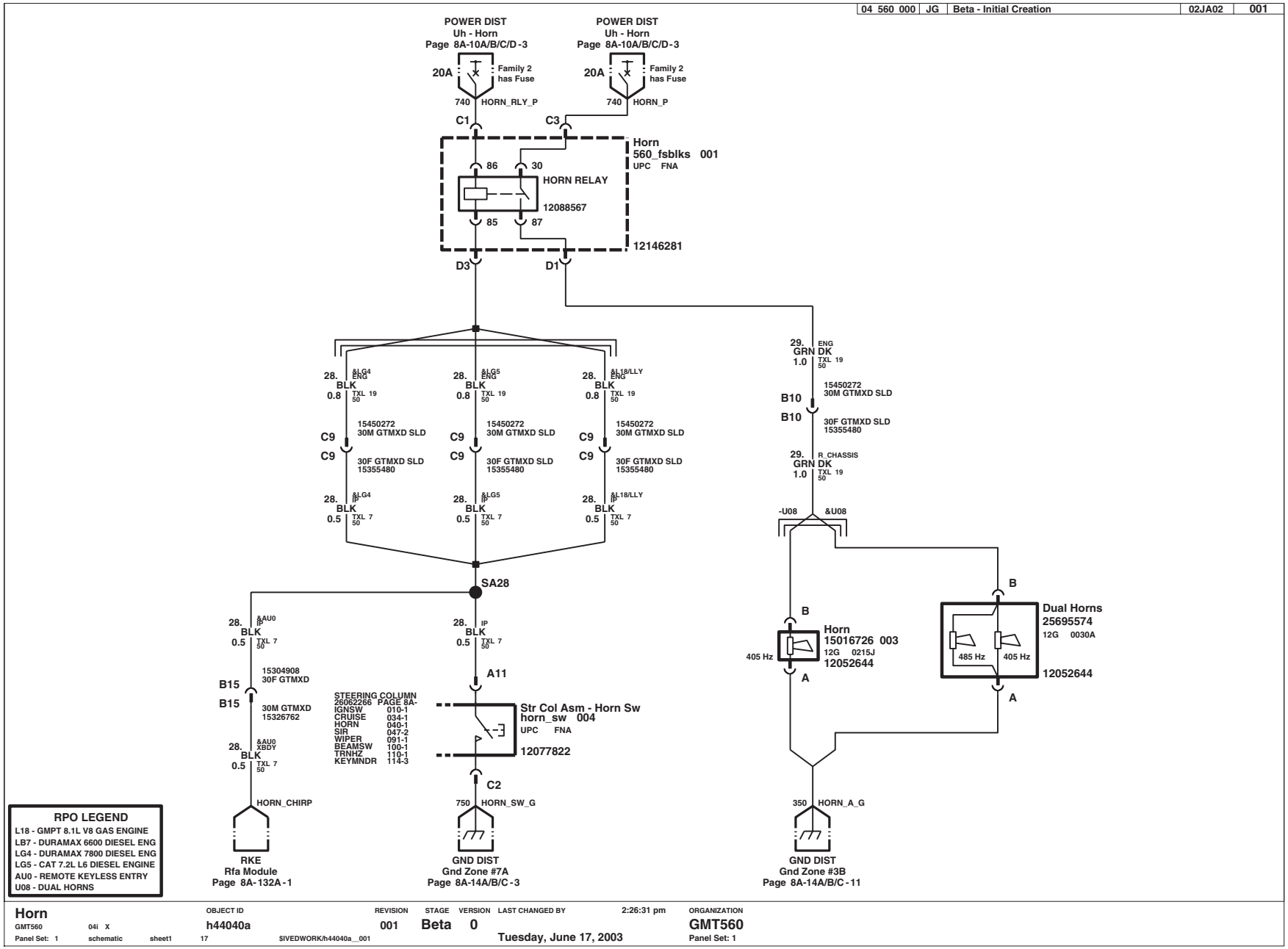
ORGANIZATION GMT560
Panel Set: 1

Active Transfer Case

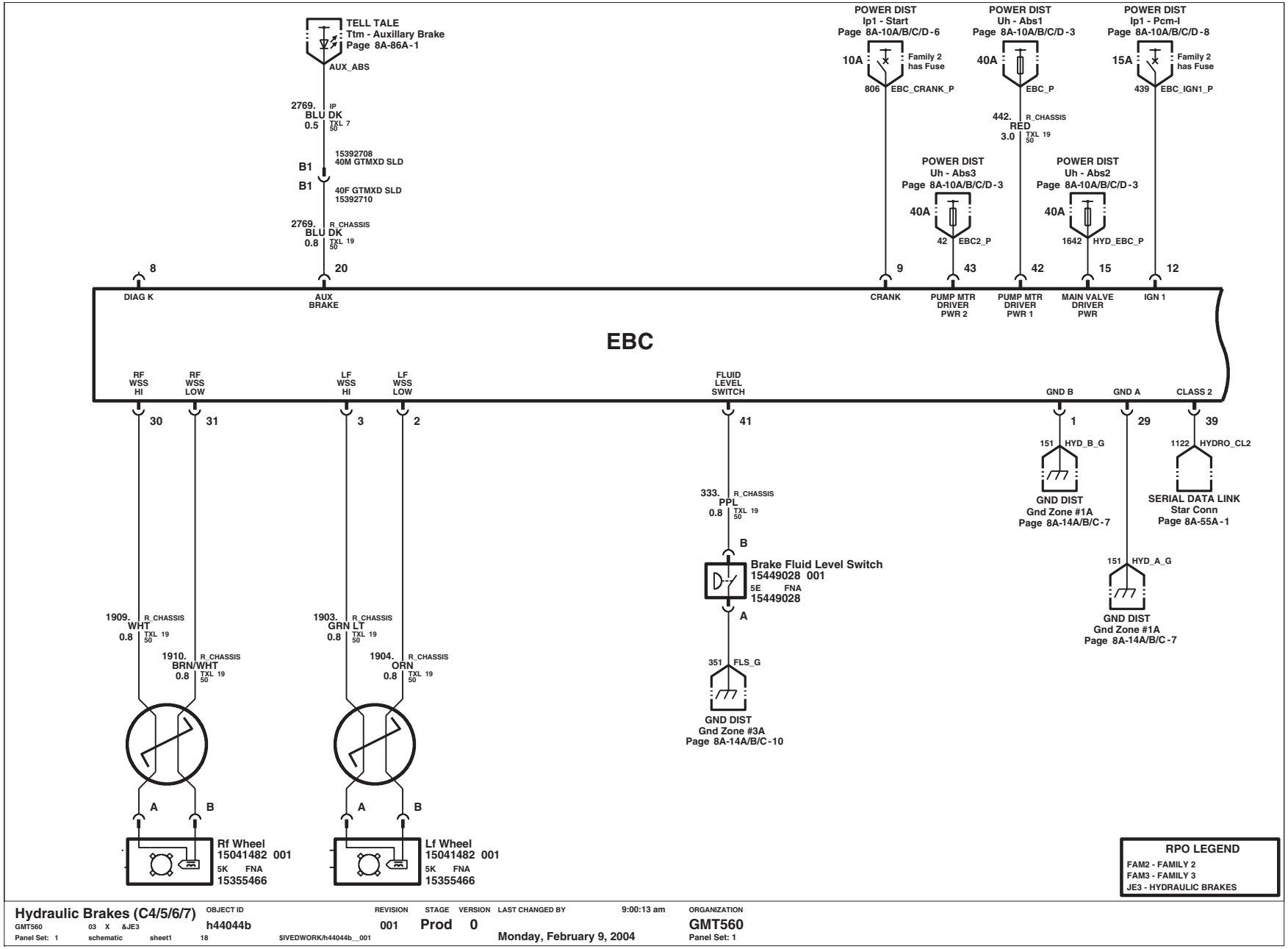


Active Transfer Case	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY	6:14:06 am	ORGANIZATION
GMT560 05 X &NP1	h53038a	001	PROD				GMT560
Panel Set: 2 schematic sheet1 10	$IVEDWORK/h53038a__001				Tuesday, November 18, 2003		Panel Set: 2

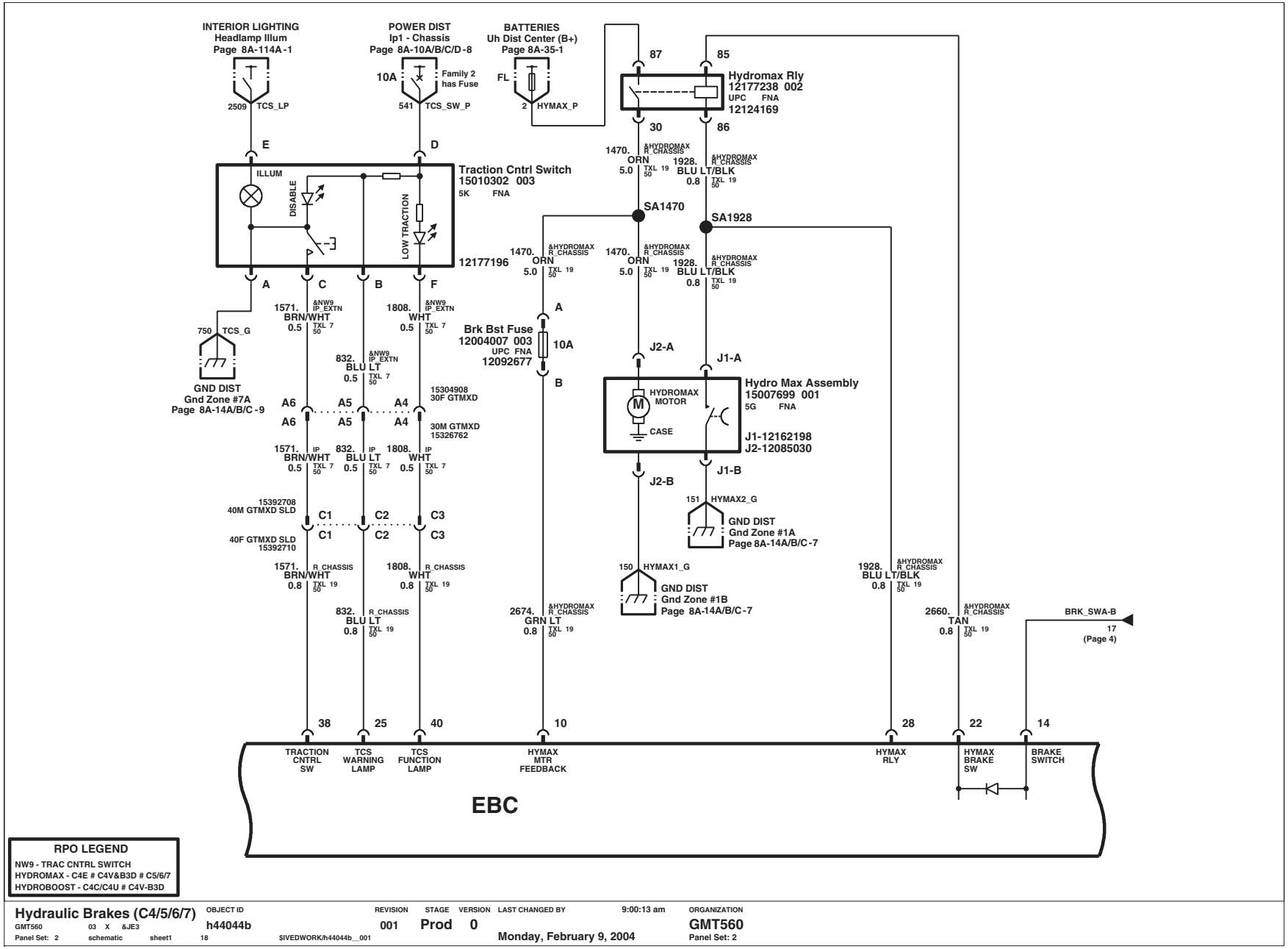
Horn


04 560 000 JG Beta - Initial Creation 02JA02 001
POWER DIST
Uh - Horn
Page 8A-10A/B/C/D-3
20A
Family 2 has Fuse
740 HORN_RLY_P
740 HORN_P
C1
C3
Horn
560_fsblks 001
UPC FNA
86
30
HORN RELAY
12088567
85
87
12146281
D3
D1
28. &LG4 ENG BLK 0.8 TXL 19 50
28. &LG5 ENG BLK 0.8 TXL 19 50
28. &L18/LLY ENG BLK 0.8 TXL 19 50
C9
15450272
30M GTMXD SLD
30F GTMXD SLD
15355480
28. &LG4 IP BLK 0.5 TXL 7 50
28. &LG5 IP BLK 0.5 TXL 7 50
28. &L18/LLY IP BLK 0.5 TXL 7 50
SA28
28. &AU0 IP BLK 0.5 TXL 7 50
28. IP BLK 0.5 TXL 7 50
15304908
30F GTMXD
B15
30M GTMXD
15326762
28. &AU0 XBDY BLK 0.5 TXL 7 50
A11
STEERING COLUMN
26062266 PAGE 8A-
IGNSW 010-1
CRUISE 034-1
HORN 040-1
SIR 047-2
WIPER 091-1
BEAMSW 100-1
TRNHZ 110-1
KEYMNDR 114-3
Str Col Asm - Horn Sw
horn_sw 004
UPC FNA
12077822
C2
HORN_CHIRP
750 HORN_SW_G
RKE
Rfa Module
Page 8A-132A-1
GND DIST
Gnd Zone #7A
Page 8A-14A/B/C-3
29. ENG GRN DK 1.0 TXL 19 50
B10
15450272
30M GTMXD SLD
30F GTMXD SLD
15355480
29. R_CHASSIS GRN DK 1.0 TXL 19 50
-U08
&U08
B
A
Horn
15016726 003
12G 0215J
12052644
405 Hz
Dual Horns
25695574
12G 0030A
485 Hz
405 Hz
12052644
350 HORN_A_G
GND DIST
Gnd Zone #3B
Page 8A-14A/B/C-11
RPO LEGEND
L18 - GMPT 8.1L V8 GAS ENGINE
LB7 - DURAMAX 6600 DIESEL ENG
LG4 - DURAMAX 7800 DIESEL ENG
LG5 - CAT 7.2L L6 DIESEL ENGINE
AU0 - REMOTE KEYLESS ENTRY
U08 - DUAL HORNS
Horn
GMT560 04i X
Panel Set: 1 schematic sheet1 17
OBJECT ID h44040a
REVISION 001
STAGE Beta
VERSION 0
LAST CHANGED BY $IVEDWORK/h44040a_001
2:26:31 pm Tuesday, June 17, 2003
ORGANIZATION GMT560
Panel Set: 1

Brakes (C4/5/6/7) — Hydraulic



Brakes (C4/5/6/7) — Hydraulic

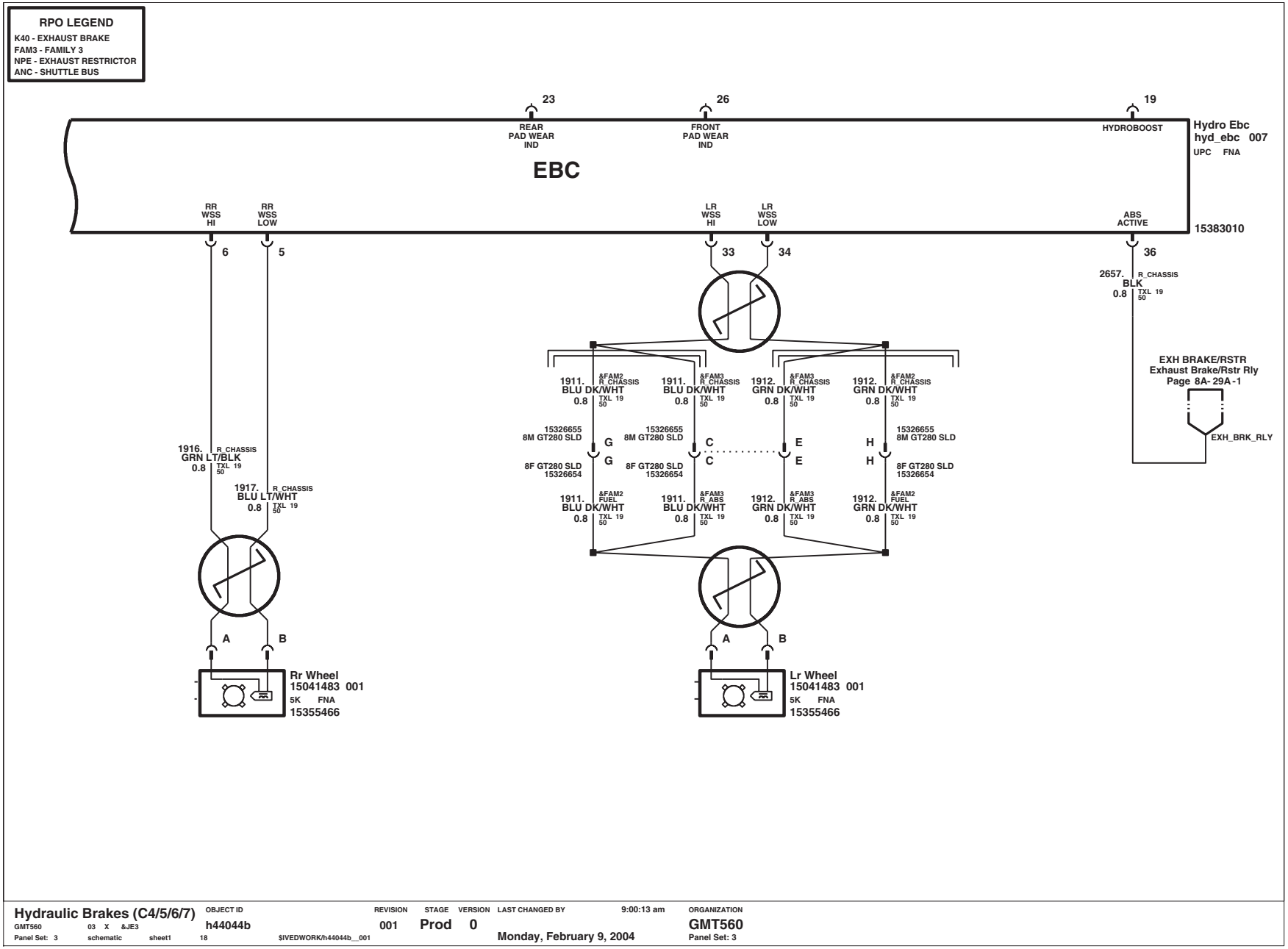


RPO LEGEND

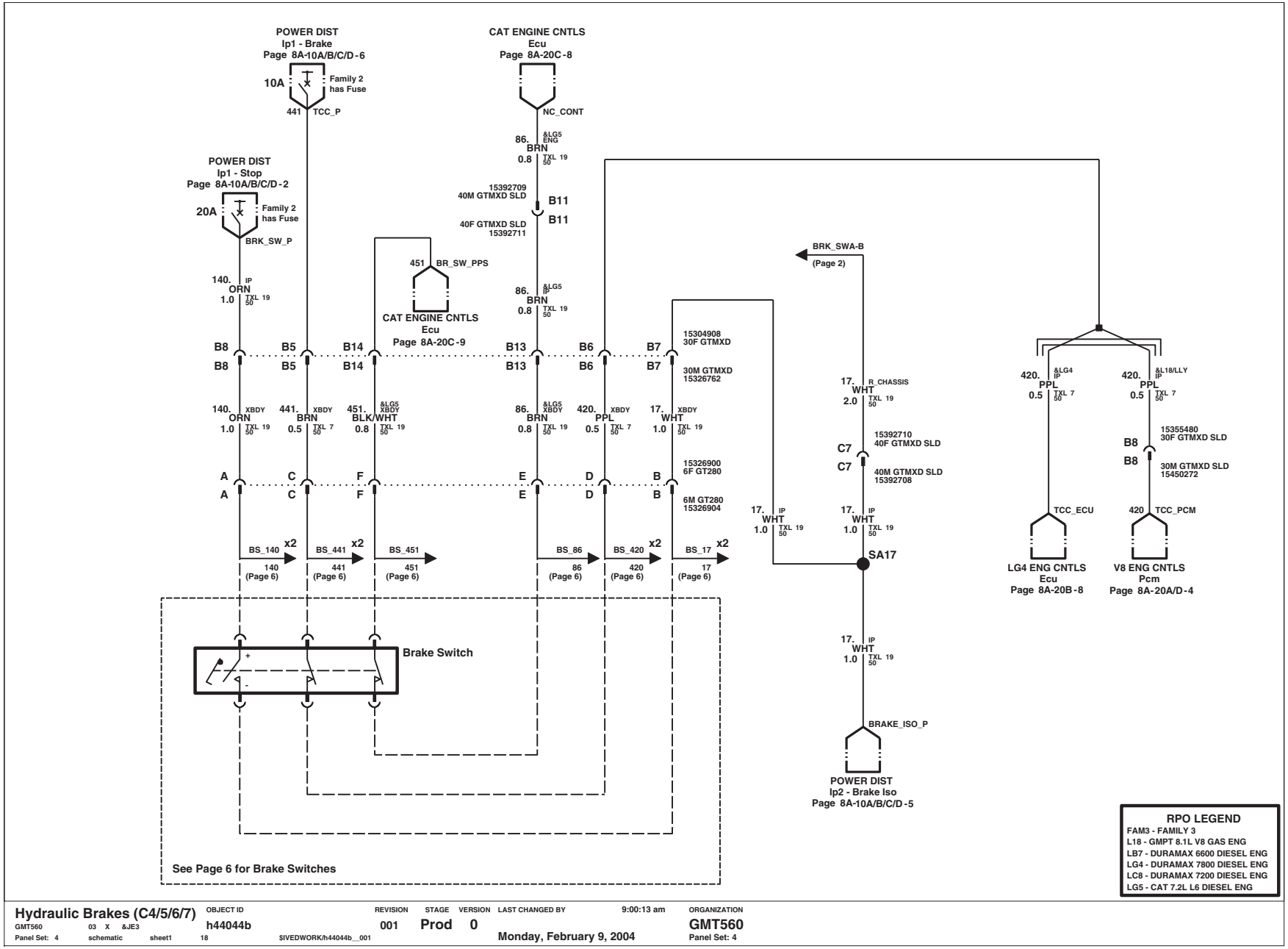
NW9 - TRAC CNTRL SWITCH
HYDROMAX - C4E # C4V&B3D # C5/6/7
HYDROBOOST - C4C/C4U # C4V-B3D

Hydraulic Brakes (C4/5/6/7)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY		ORGANIZATION
GMT560 03 X &JE3	h44044b	001	Prod	0		9:00:13 am	GMT560
Panel Set: 2 schematic sheet1 18	$IVEDWORK/h44044b__001				Monday, February 9, 2004		Panel Set: 2

Brakes (C4/5/6/7) — Hydraulic



Brakes (C4/5/6/7) — Hydraulic

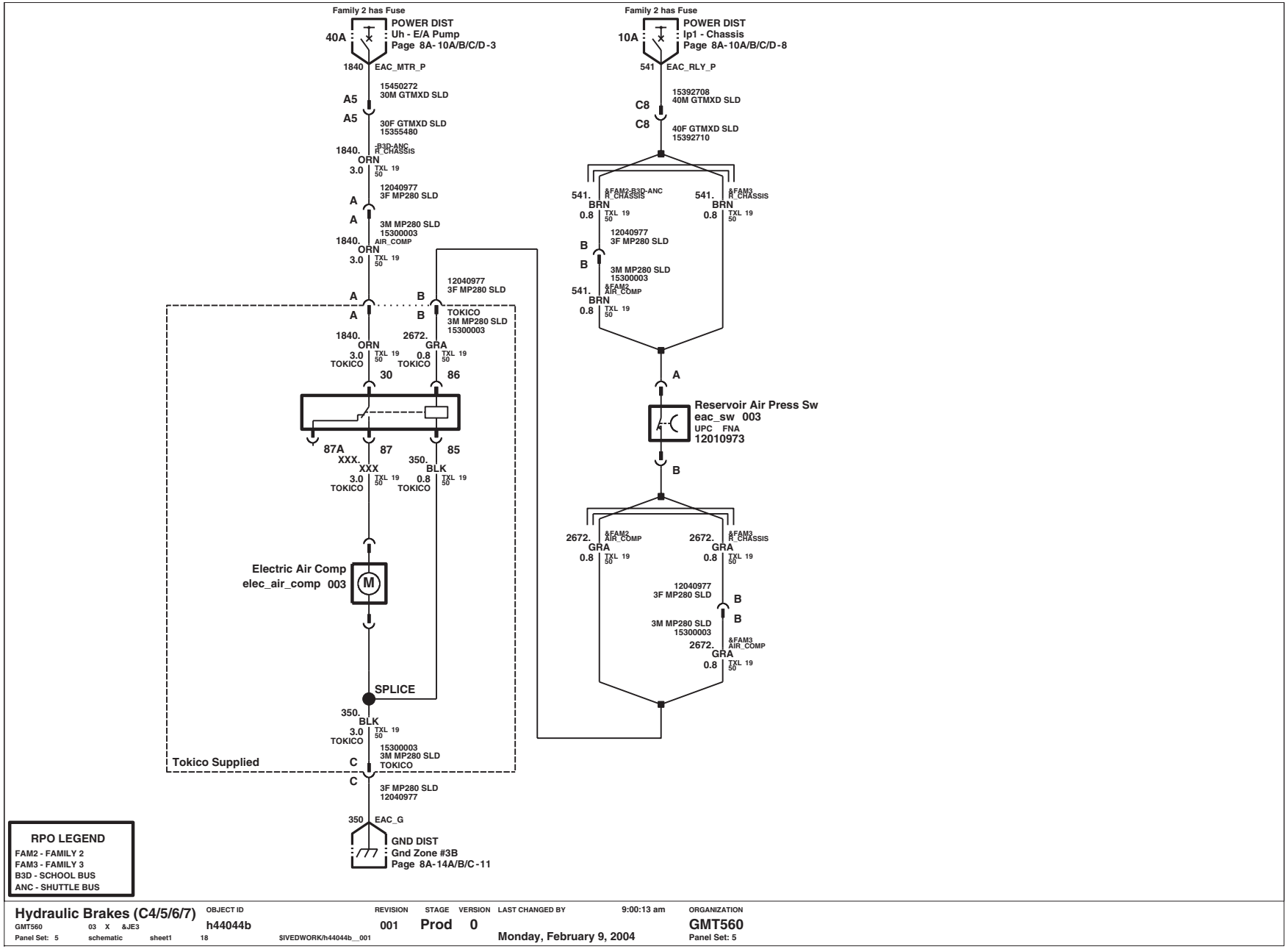


Hydraulic Brakes (C4/5/6/7)

OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY		ORGANIZATION
h44044b	001	Prod	0	Monday, February 9, 2004	9:00:13 am	GMT560

GMT560 03 X &JE3 Panel Set: 4 schematic sheet1 18 $IVEDWORK/h44044b__001 Panel Set: 4

Brakes (C4/5/6/7) — Hydraulic



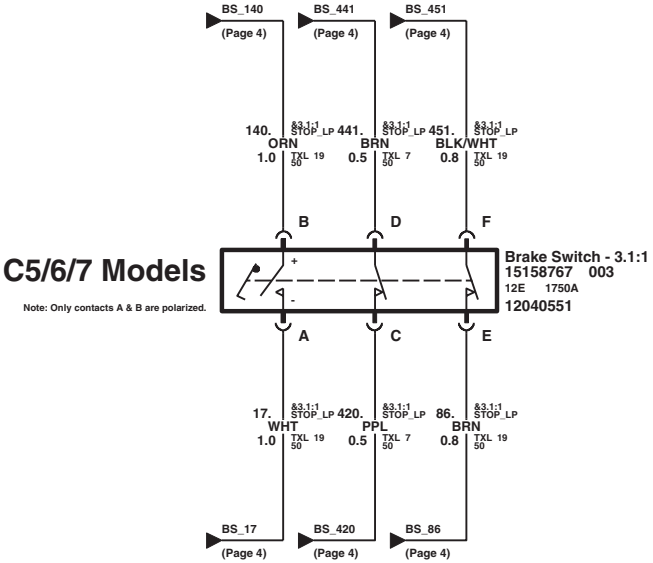
Hydraulic Brakes (C4/5/6/7)

OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY		ORGANIZATION
h44044b	001	Prod	0		9:00:13 am	GMT560
				Monday, February 9, 2004		

GMT560 03 X &JE3 — Panel Set: 5 — schematic — sheet1 — 18 — $IVEDWORK/h44044b__001 — Panel Set: 5

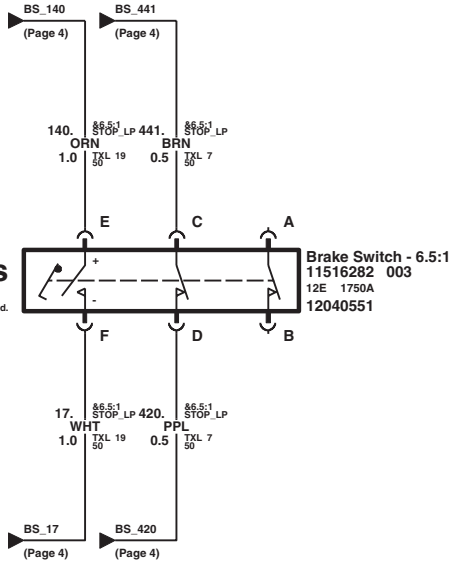
Brakes (C4/5/6/7) — Hydraulic

03	560	000	JG	PILOT B - INITIAL CREATION	28AU00	001
03	560	760	LR	Remove 420 & 2657 Circuit to TCM	25AU00	001
03	560	783	LR	Revise Electric Air Compressor Graphics	13SE00	001
03	560	000	TY	Added Labels to Brake Sw.	02OC00	001
03	560	805	JG	Remove Pad Wear Indicators	27OC00	001
03	560	814	JG	R. ABS to R. Chassis Inline Update	03NO00	001
03	560	841	JG	Remove UJ1 Content	05JA01	001
03	560	841	JG	Combined with h22044a	12JA01	001
03	560	983	JG	School Bus Updates	09AP01	001
03	560	1056	LR	REMOVE LC8	18JL01	001
03	560	1151	LR	REMOVE HYD_BST_JMPR	14DE01	001
03	560	1228	JG	Added RPO ANC	07MY02	001



C5/6/7 Models

Note: Only contacts A & B are polarized.



C4 Models

Note: Only contacts E & F are polarized.

RPO LEGEND

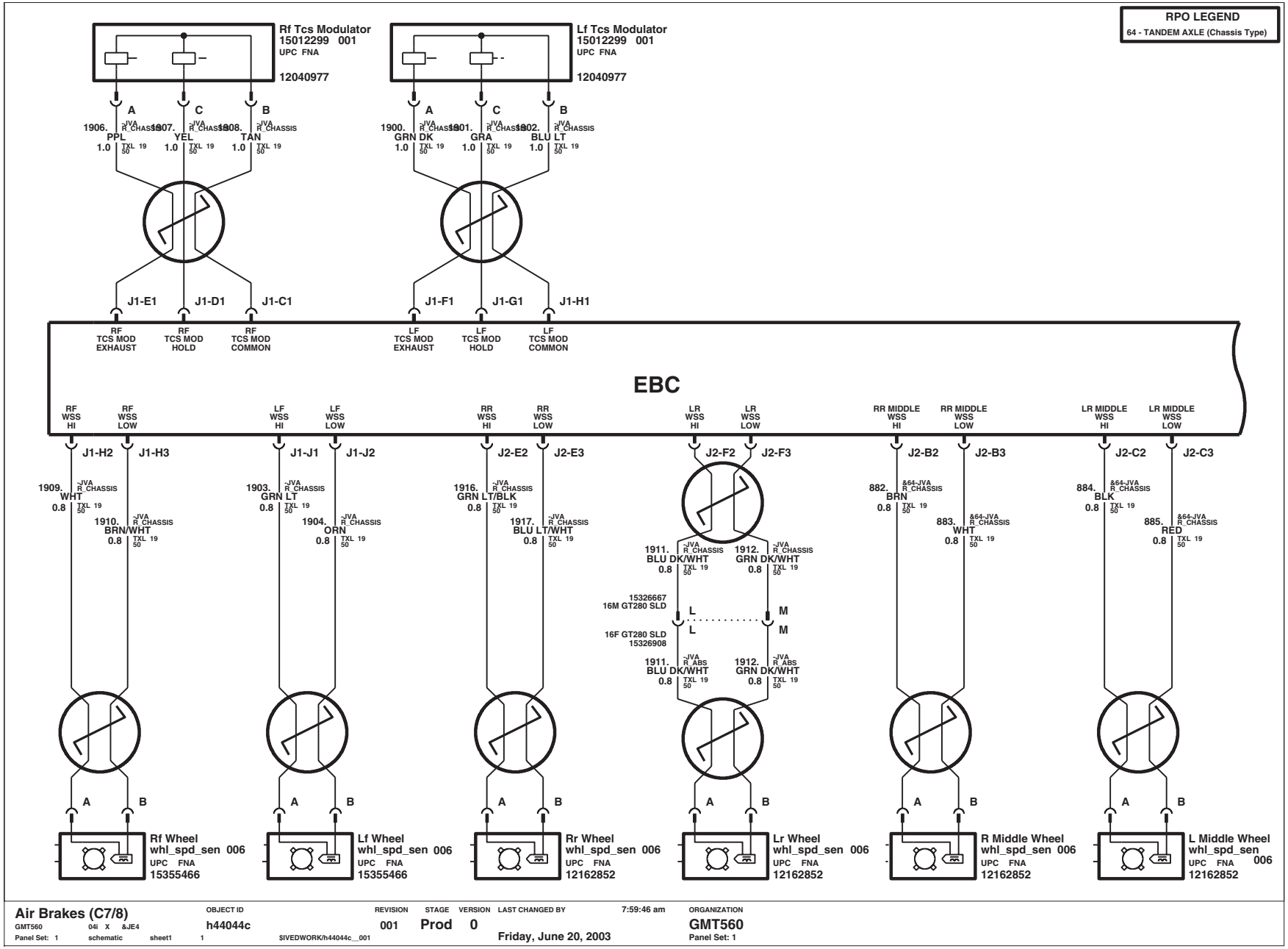
3.1:1 - C5/6/7&JE3
6.5:1 - C4&JE3 # C7/8&JE4

Hydraulic Brakes (C4/5/6/7)

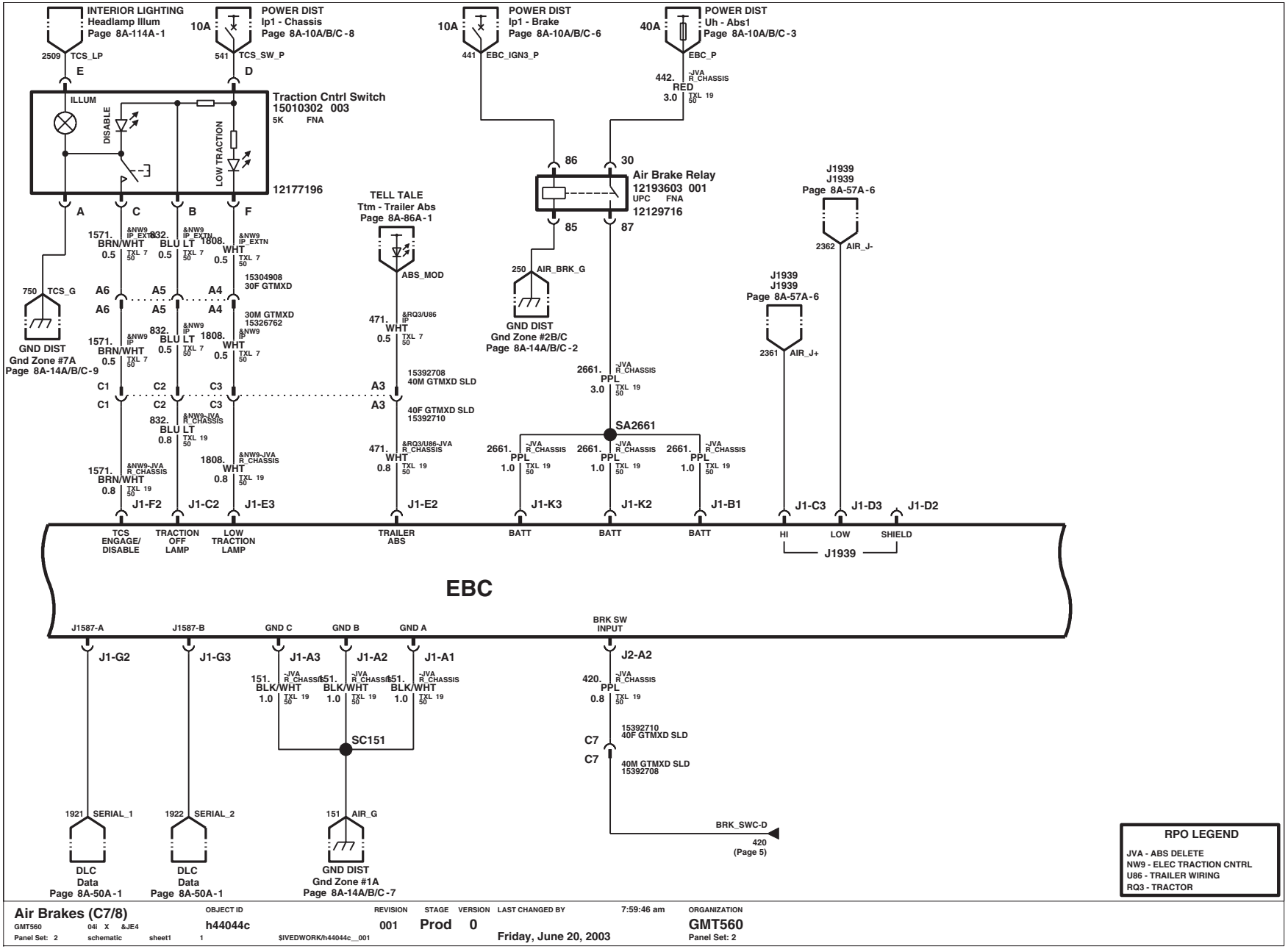
OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY		ORGANIZATION
h44044b	001	Prod	0		9:00:13 am	GMT560

GMT560 03 X &JE3 — Panel Set: 6 — schematic — sheet1 — 18 — $IVEDWORK/h44044b__001 — Monday, February 9, 2004 — Panel Set: 6

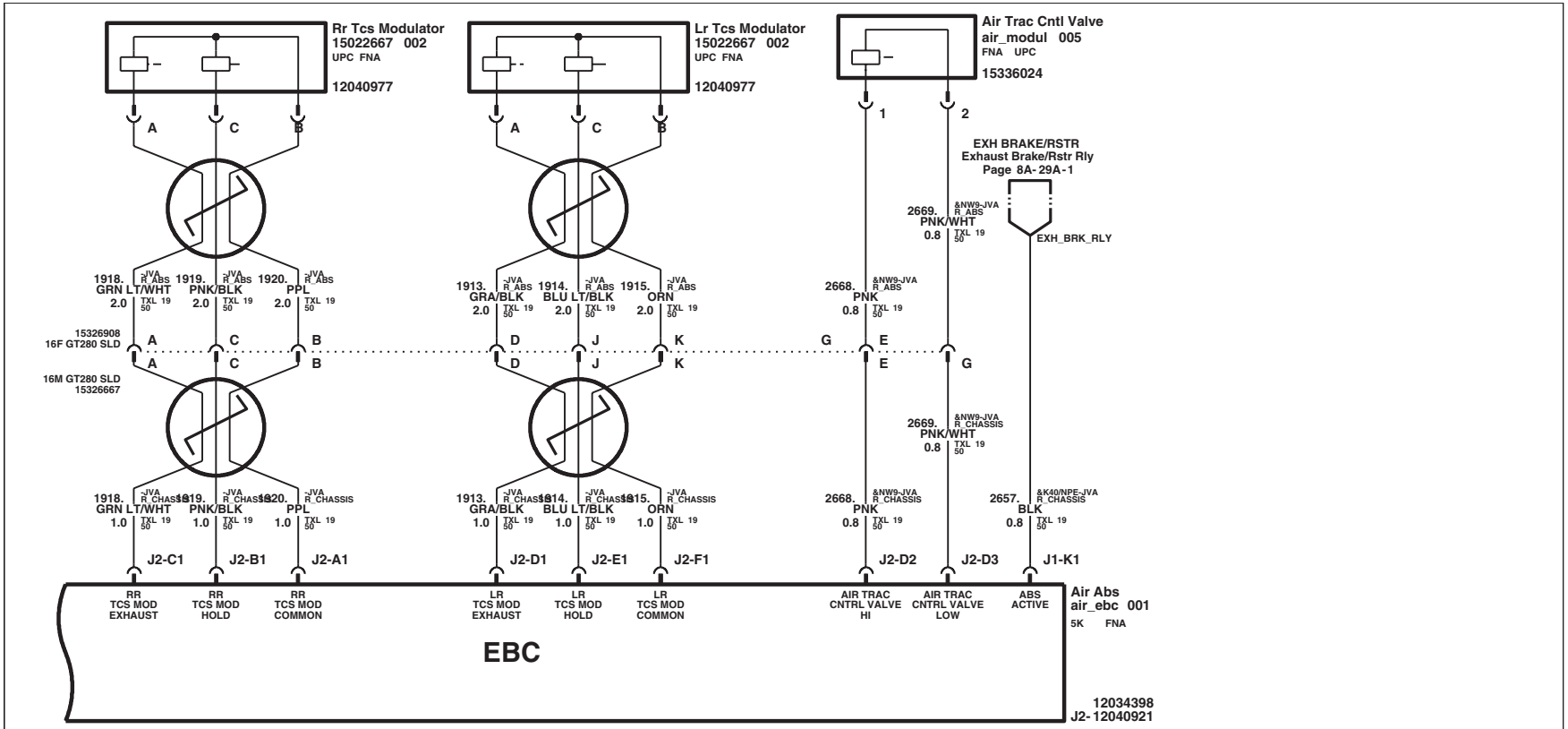
Brakes (C7/8) — Air



Brakes (C7/8) — Air



Brakes (C7/8) — Air



NOTE:
Optional Air Trac Cntrl Valves:

15012309 - C6,7,8H042; RQ3
15012311 - C6,7,8H042; RQ2
15041051 - C7,8H064; RQ2
15012300 - C6,7H064; RQ3

NOTE:
Optional EBC's:

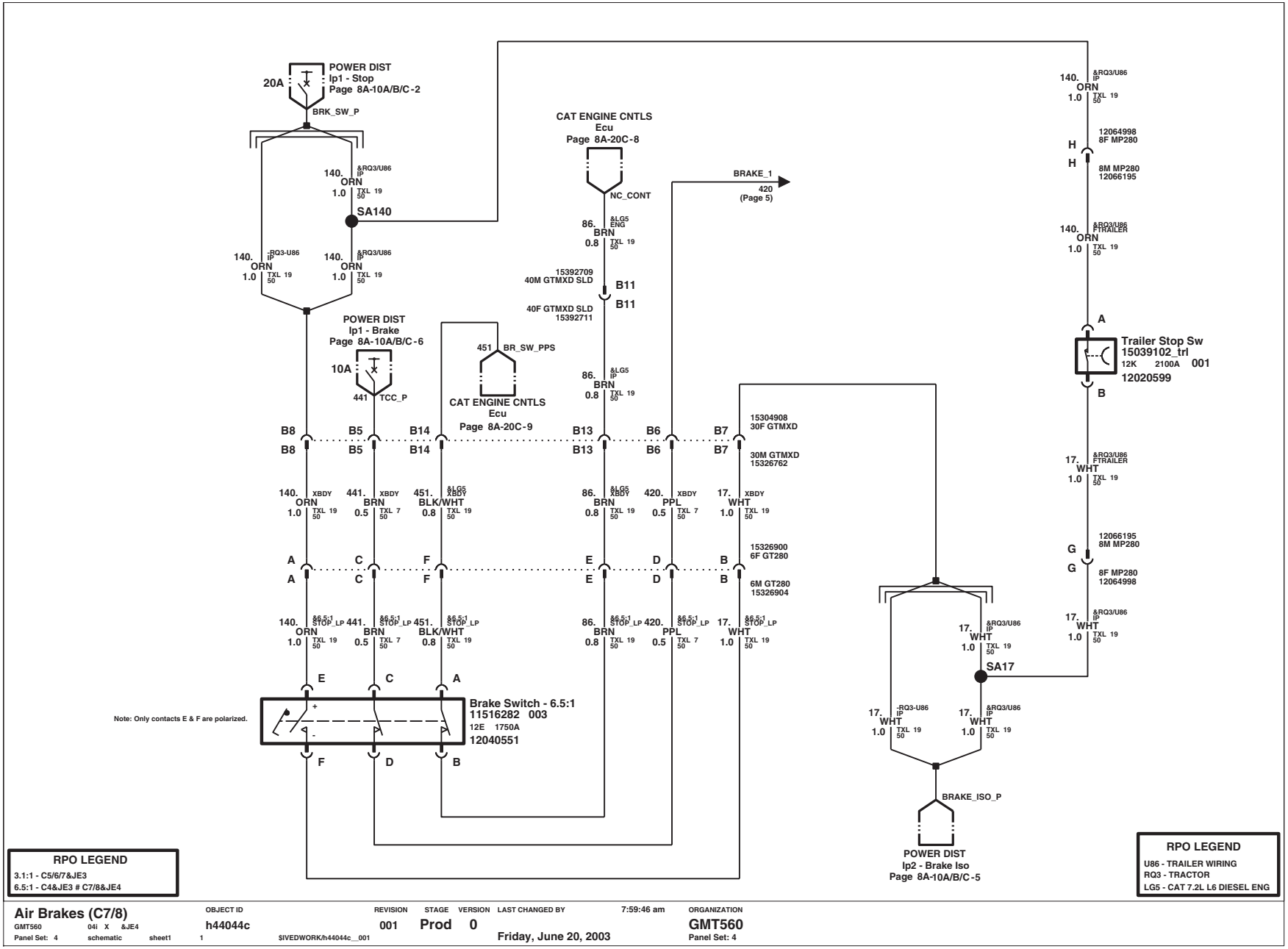
Part #	UPC	FNA
15036465	5K	0075A
15036466	5K	
15036467	5K	100A

RPO LEGEND
JVA - ABS DELETE
NPE - EXHAUST RESTRICTOR
K40 - EXHAUST BRAKE
JE4 - AIR BRAKES
NW9 - ELEC TRACTION CNTRL

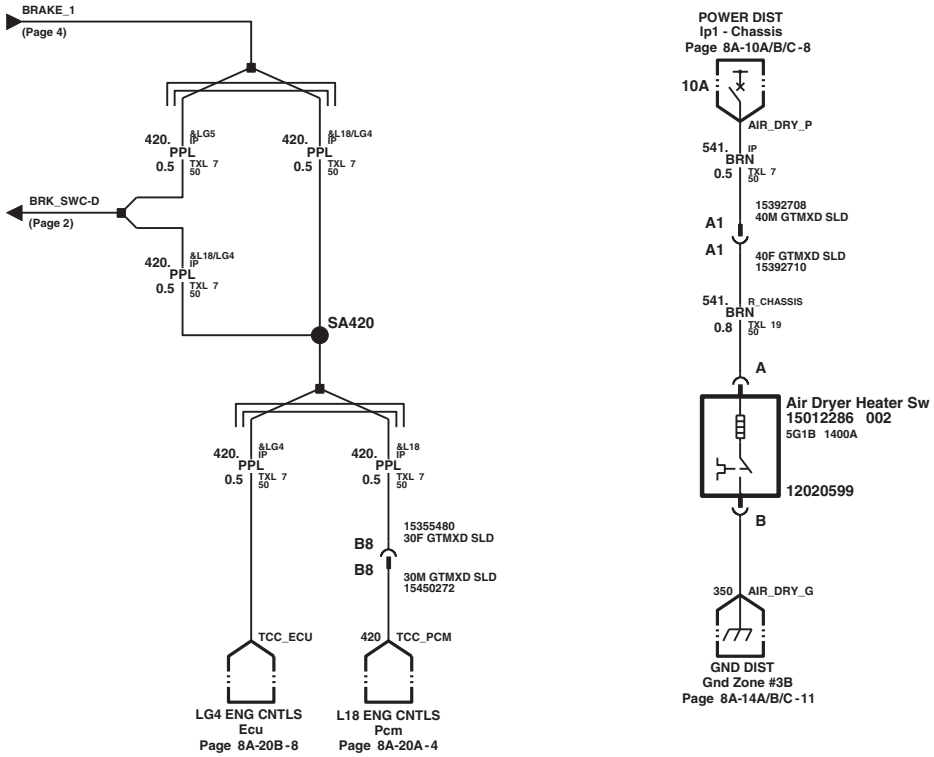
Air Brakes (C7/8)
GMT560 04i X &JE4
Panel Set: 3 schematic sheet1 1

OBJECT ID: h44044c
REVISION: 001
STAGE: Prod
VERSION: 0
LAST CHANGED BY: $IVEDWORK/h44044c__001
7:59:46 am Friday, June 20, 2003
ORGANIZATION: GMT560
Panel Set: 3

Brakes (C7/8) — Air



Brakes (C7/8) — Air

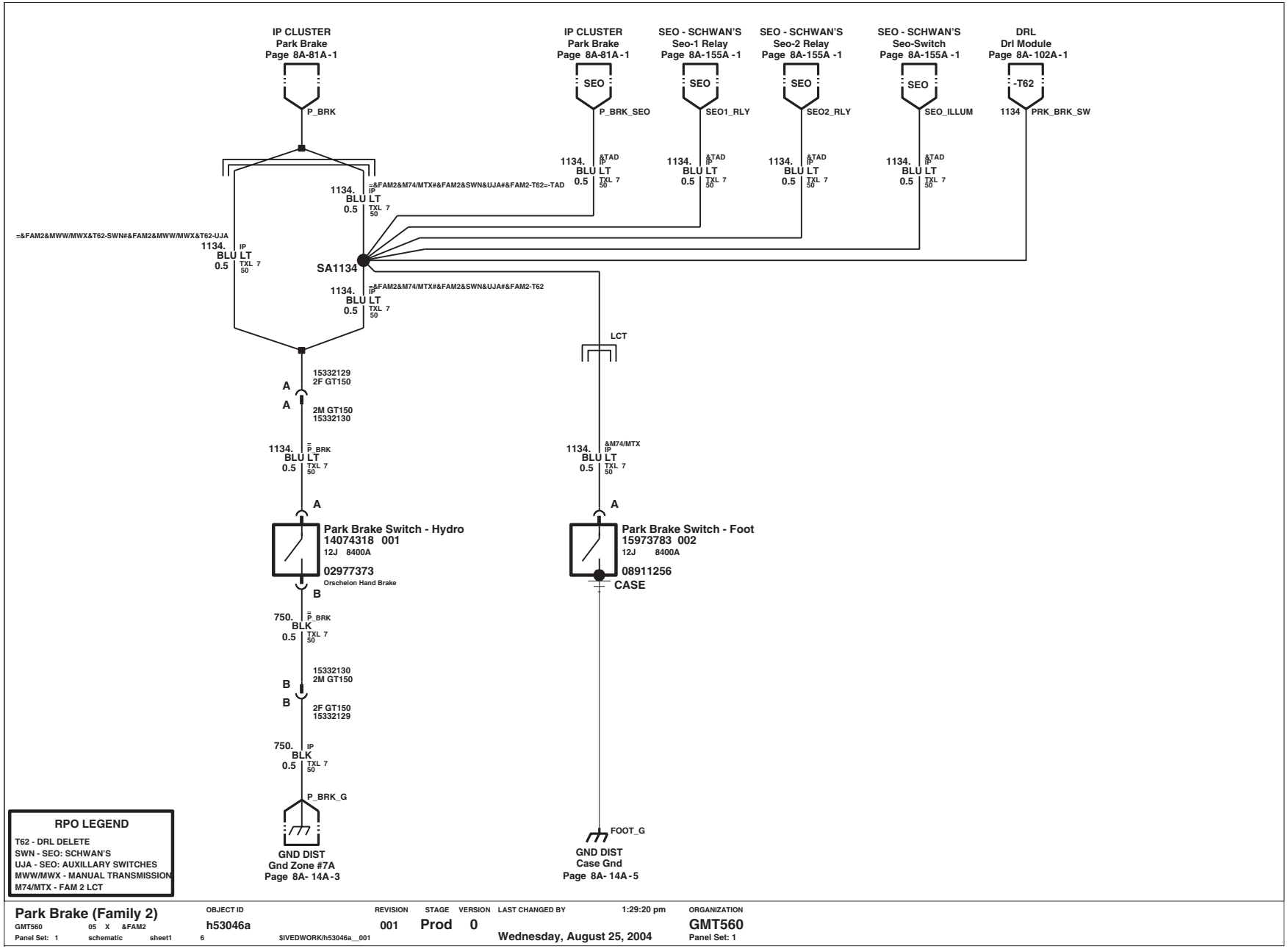


RPO LEGEND

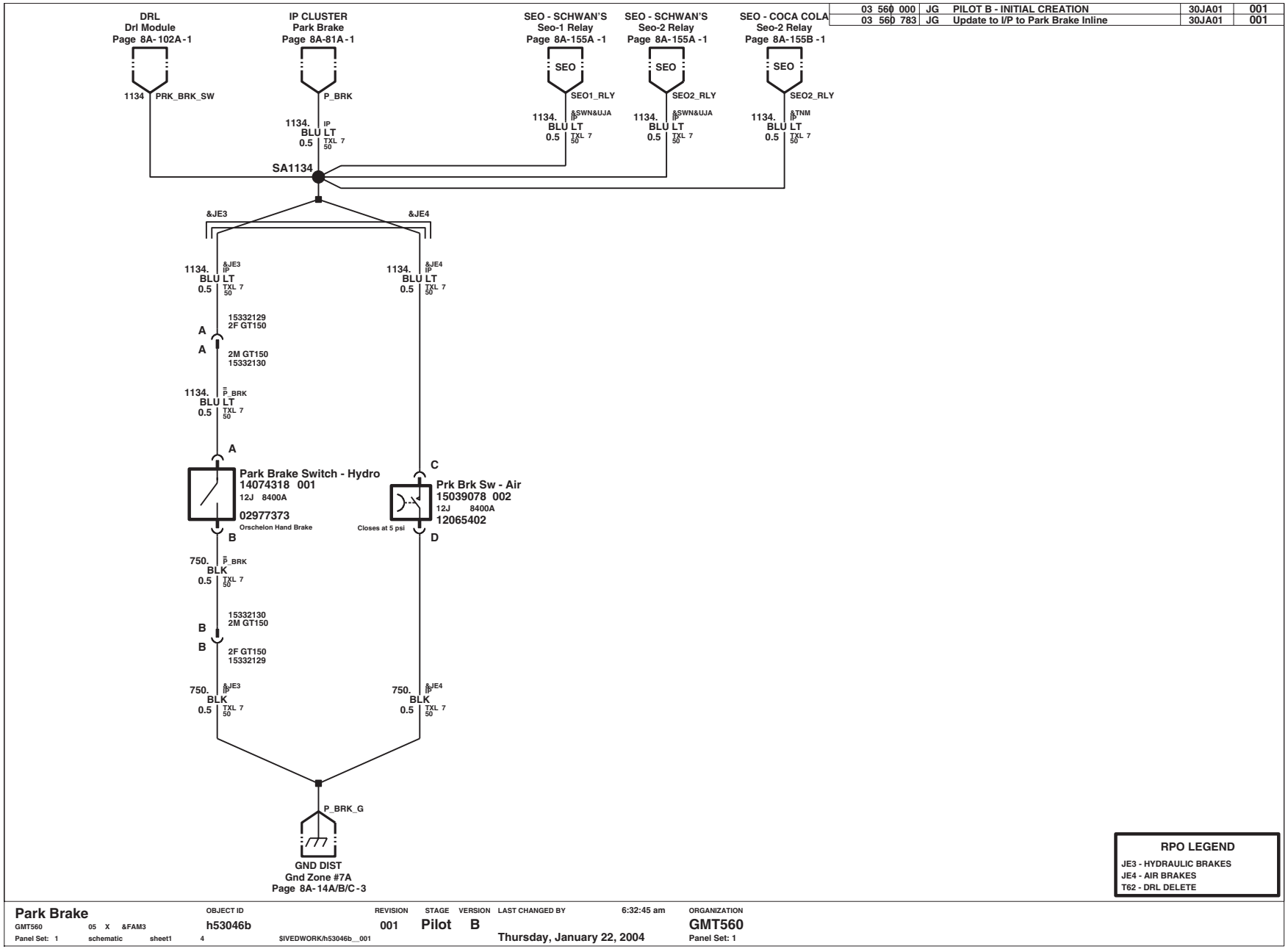
L18 - GMPT 8.1L V8 GAS ENG
LG4 - DURAMAX 7800 DIESEL ENG
LC8 - DURAMAX 7200 DIESEL ENG
LG5 - CAT 7.2L L6 DIESEL ENG

Air Brakes (C7/8)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY	7:59:46 am	ORGANIZATION
GMT560 04i X &JE4	h44044c	001	Prod	0			GMT560
Panel Set: 5 schematic sheet1 1	$IVEDWORK/h44044c__001				Friday, June 20, 2003		Panel Set: 5

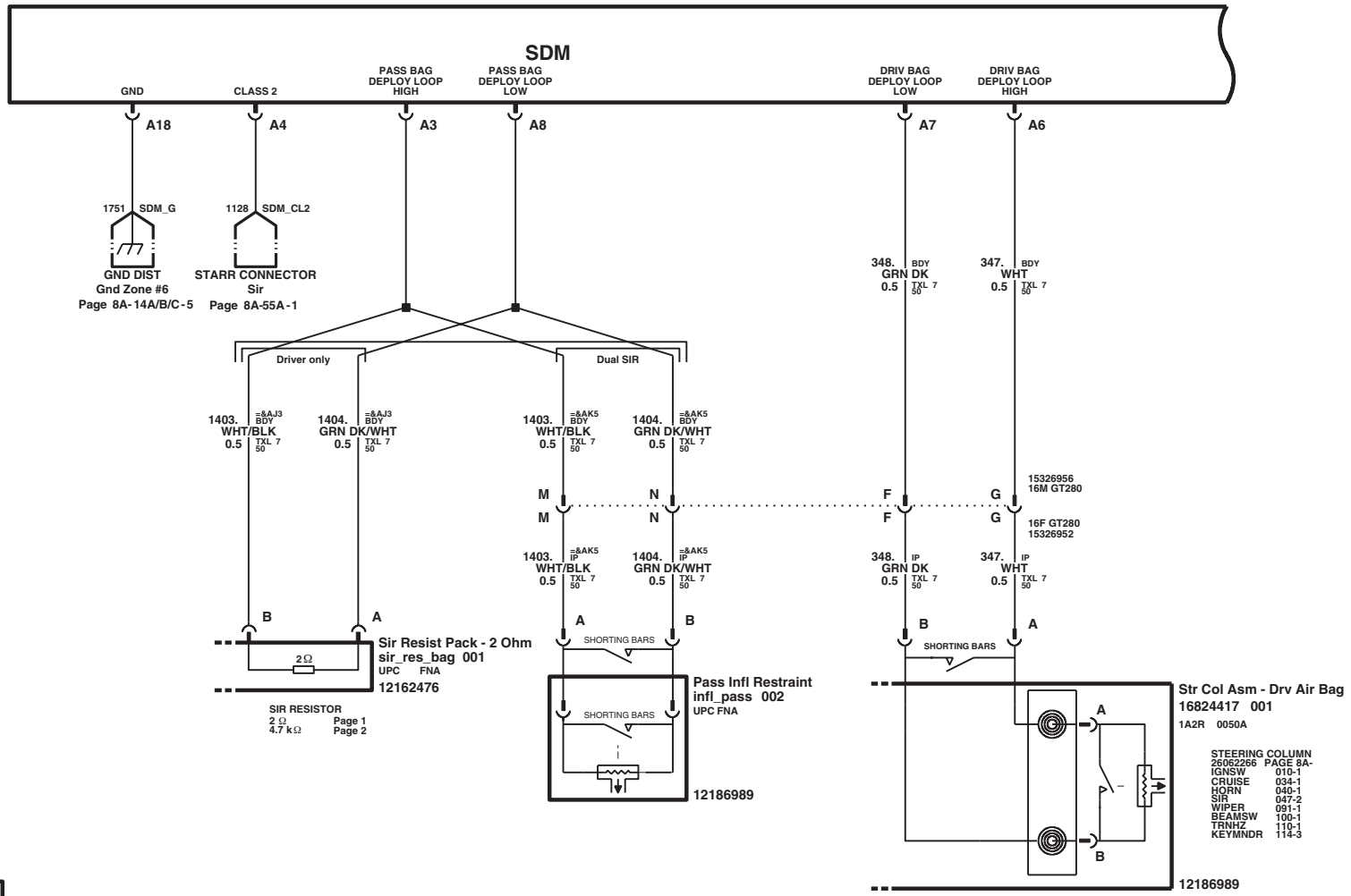
Park Brake — Family 2



Park Brake — Family 3 with DRL

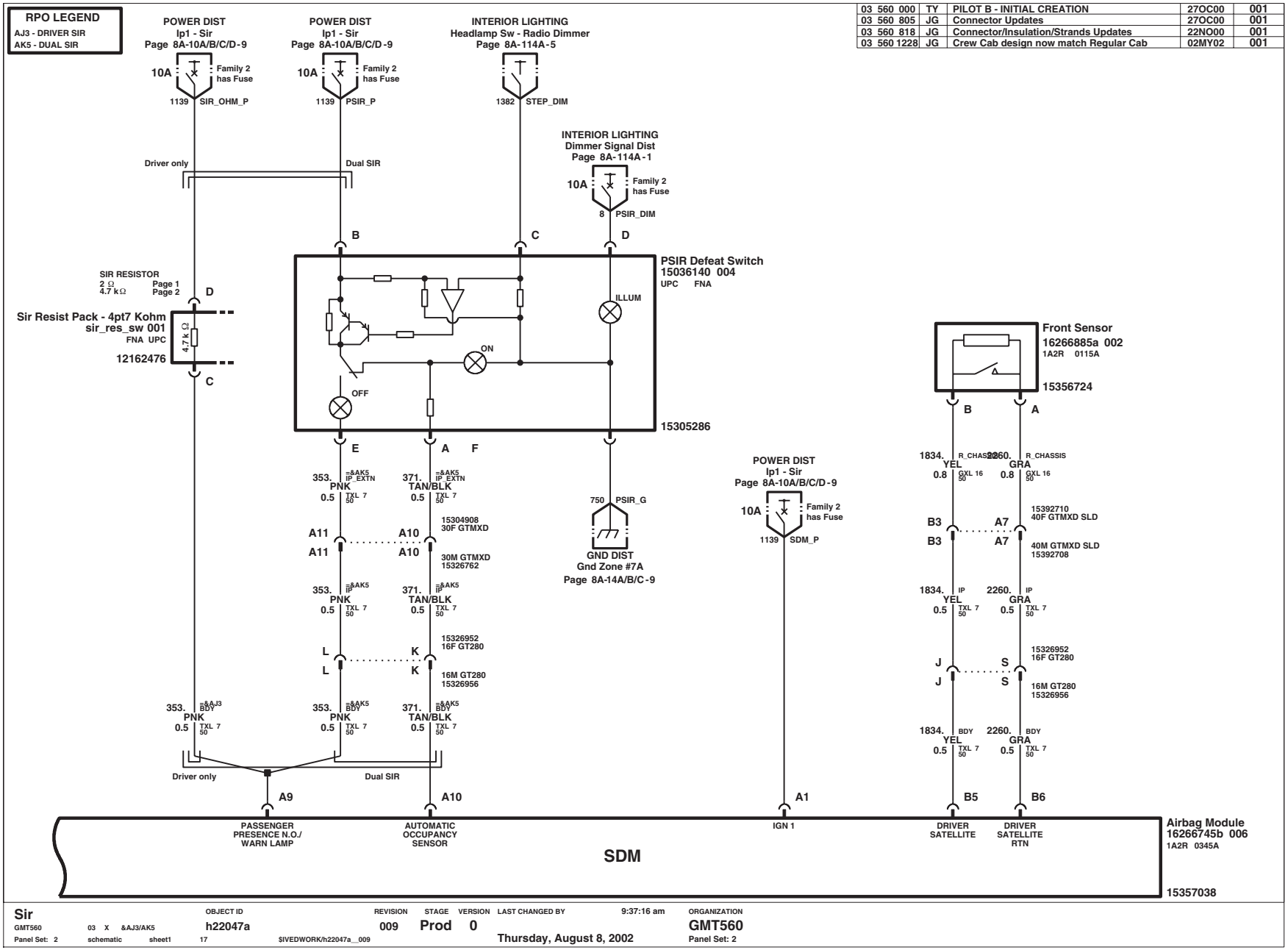


SIR

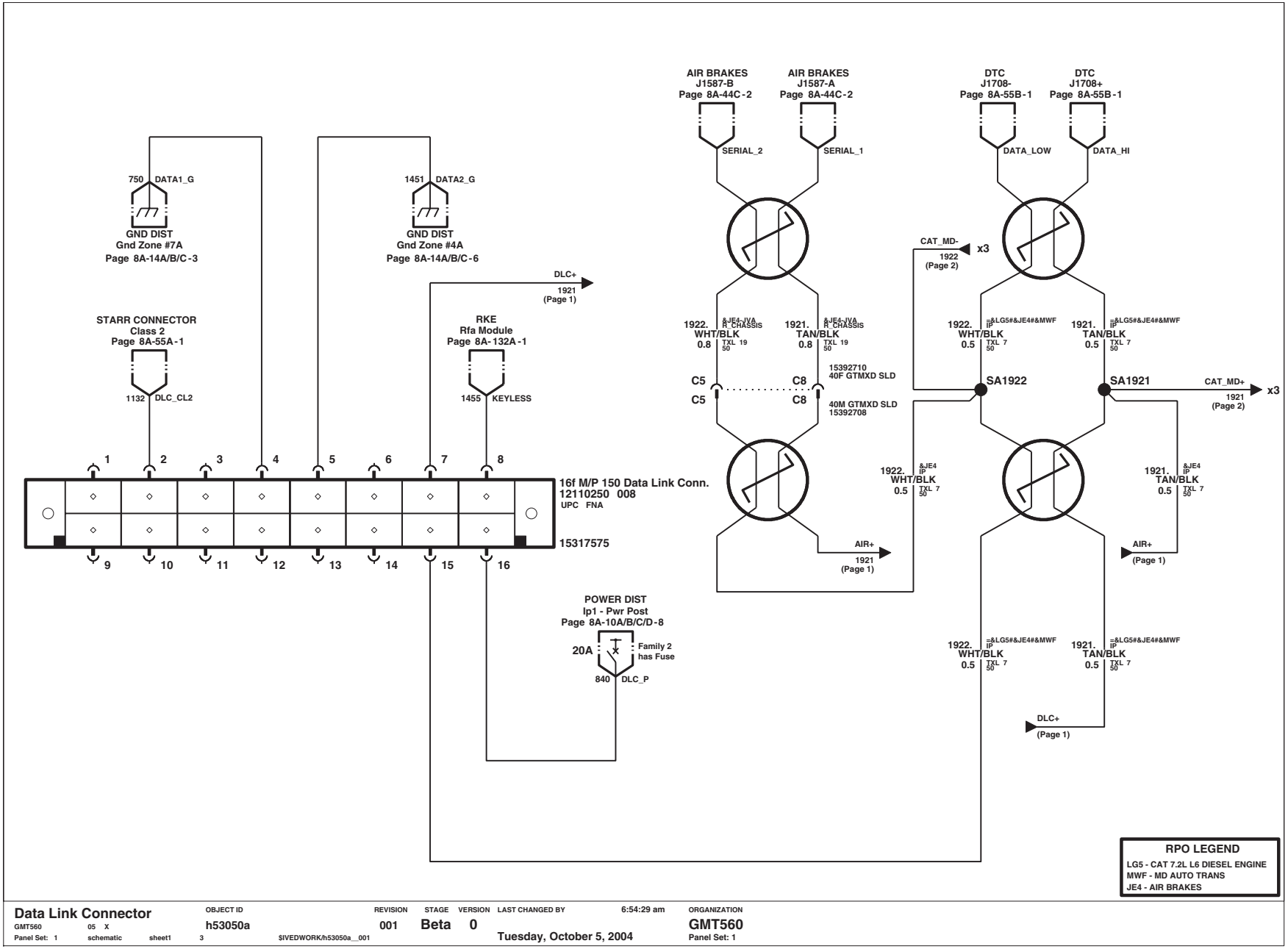

SDM
GND
CLASS 2
PASS BAG DEPLOY LOOP HIGH
PASS BAG DEPLOY LOOP LOW
DRIV BAG DEPLOY LOOP LOW
DRIV BAG DEPLOY LOOP HIGH
A18
A4
A3
A8
A7
A6
1751 SDM_G
1128 SDM_CL2
GND DIST
Gnd Zone #6
Page 8A-14A/B/C-5
STARR CONNECTOR
Sir
Page 8A-55A-1
348. BDY GRN DK 0.5 TXL 7 50
347. BDY WHT 0.5 TXL 7 50
Driver only
Dual SIR
1403. =&AJ3 BDY WHT/BLK 0.5 TXL 7 50
1404. =&AJ3 BDY GRN DK/WHT 0.5 TXL 7 50
1403. =&AK5 BDY WHT/BLK 0.5 TXL 7 50
1404. =&AK5 BDY GRN DK/WHT 0.5 TXL 7 50
M N F G
15326956
16M GT280
16F GT280
15326952
1403. =&AK5 IP WHT/BLK 0.5 TXL 7 50
1404. =&AK5 IP GRN DK/WHT 0.5 TXL 7 50
348. IP GRN DK 0.5 TXL 7 50
347. IP WHT 0.5 TXL 7 50
B A
2Ω
Sir Resist Pack - 2 Ohm
sir_res_bag 001
UPC FNA
12162476
SIR RESISTOR
2 Ω Page 1
4.7 kΩ Page 2
SHORTING BARS
Pass Infl Restraint
infl_pass 002
UPC FNA
12186989
Str Col Asm - Drv Air Bag
16824417 001
1A2R 0050A
STEERING COLUMN
26062266 PAGE 8A-
IGNSW 010-1
CRUISE 034-1
HORN 040-1
SIR 047-2
WIPER 091-1
BEAMSW 100-1
TRNHZ 110-1
KEYMNDR 114-3
12186989
RPO LEGEND
AJ3 - DRIVER SIR
AK5 - DUAL SIR
Sir
GMT560 03 X &AJ3/AK5
Panel Set: 1 schematic sheet1 17
OBJECT ID h22047a
REVISION 009
STAGE Prod
VERSION 0
LAST CHANGED BY
$IVEDWORK/h22047a__009
9:37:16 am
Thursday, August 8, 2002
ORGANIZATION GMT560
Panel Set: 1

SIR

03 560 000	TY	PILOT B - INITIAL CREATION	27OC00	001
03 560 805	JG	Connector Updates	27OC00	001
03 560 818	JG	Connector/Insulation/Strands Updates	22NO00	001
03 560 1228	JG	Crew Cab design now match Regular Cab	02MY02	001

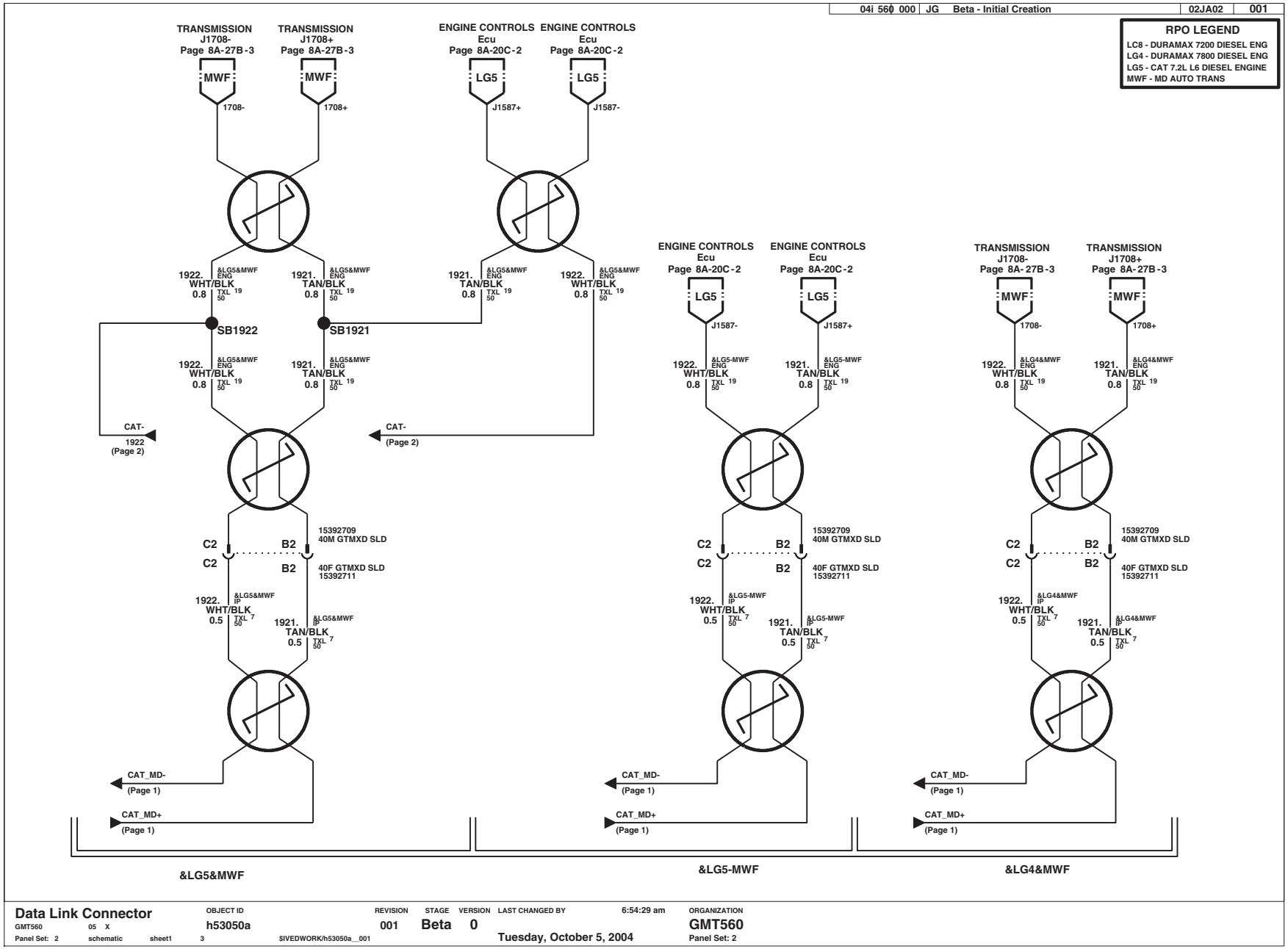


Serial Data — Data Link Connector

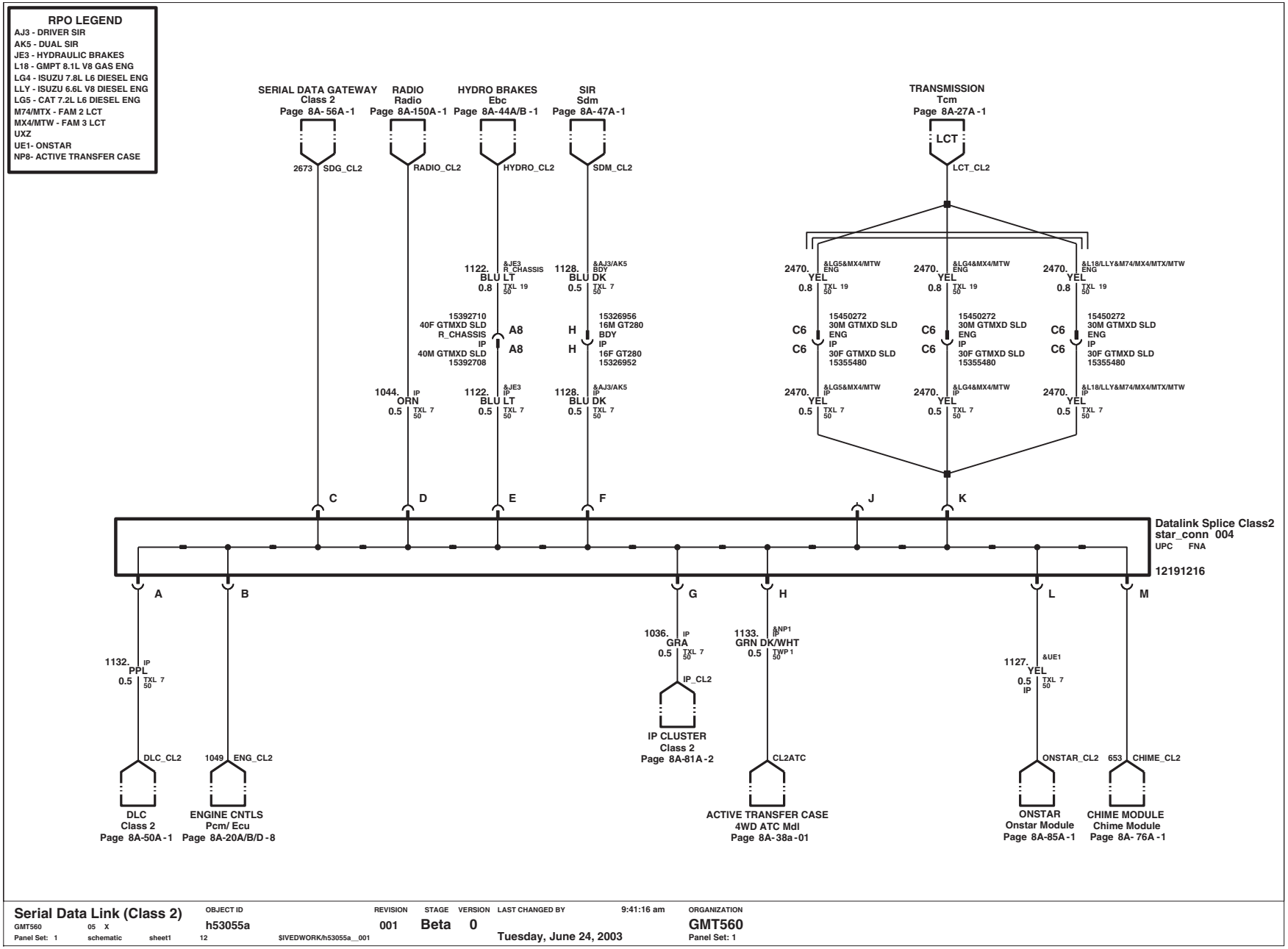


Data Link Connector
GMT560 05 X
Panel Set: 1 schematic sheet1 3
OBJECT ID h53050a
$IVEDWORK/h53050a__001
REVISION 001
STAGE Beta
VERSION 0
LAST CHANGED BY
6:54:29 am Tuesday, October 5, 2004
ORGANIZATION GMT560
Panel Set: 1

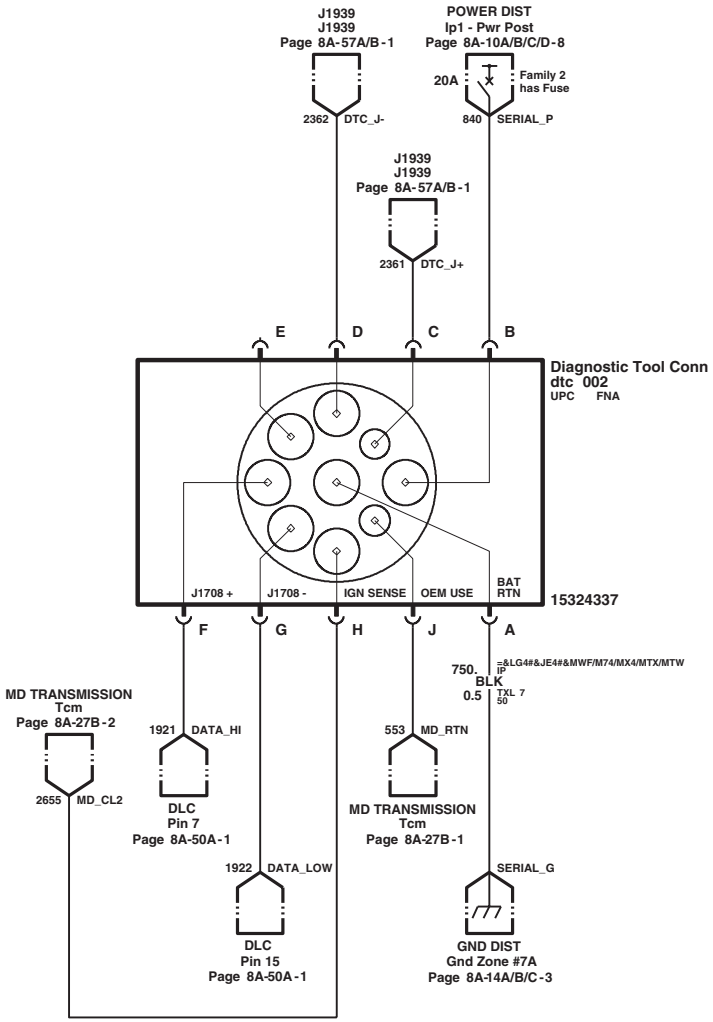
Serial Data — Data Link Connector



Serial Data — Serial Data Link (Class 2)


RPO LEGEND
AJ3 - DRIVER SIR
AK5 - DUAL SIR
JE3 - HYDRAULIC BRAKES
L18 - GMPT 8.1L V8 GAS ENG
LG4 - ISUZU 7.8L L6 DIESEL ENG
LLY - ISUZU 6.6L V8 DIESEL ENG
LG5 - CAT 7.2L L6 DIESEL ENG
M74/MTX - FAM 2 LCT
MX4/MTW - FAM 3 LCT
UXZ
UE1- ONSTAR
NP8- ACTIVE TRANSFER CASE
SERIAL DATA GATEWAY Class 2 Page 8A-56A-1
RADIO Radio Page 8A-150A-1
HYDRO BRAKES Ebc Page 8A-44A/B-1
SIR Sdm Page 8A-47A-1
TRANSMISSION Tcm Page 8A-27A-1
LCT
2673 SDG_CL2
RADIO_CL2
HYDRO_CL2
SDM_CL2
LCT_CL2
1122. &JE3 R_CHASSIS BLU LT 0.8 TXL 19 50
1128. &AJ3/AK5 BDY BLU DK 0.5 TXL 7 50
2470. &LG5&MX4/MTW ENG YEL 0.8 TXL 19 50
2470. &LG4&MX4/MTW ENG YEL 0.8 TXL 19 50
2470. &L18/LLY&M74/MX4/MTX/MTW ENG YEL 0.8 TXL 19 50
15392710 40F GTMXD SLD R_CHASSIS IP 40M GTMXD SLD 15392708
A8
A8
H
H
15326956 16M GT280 BDY IP 16F GT280 15326952
C6
15450272 30M GTMXD SLD ENG IP 30F GTMXD SLD 15355480
1044. IP ORN 0.5 TXL 7 50
1122. &JE3 IP BLU LT 0.5 TXL 7 50
1128. &AJ3/AK5 IP BLU DK 0.5 TXL 7 50
2470. &LG5&MX4/MTW IP YEL 0.5 TXL 7 50
2470. &LG4&MX4/MTW IP YEL 0.5 TXL 7 50
2470. &L18/LLY&M74/MX4/MTX/MTW IP YEL 0.5 TXL 7 50
C
D
E
F
J
K
Datalink Splice Class2 star_conn 004 UPC FNA 12191216
A
B
G
H
L
M
1132. IP PPL 0.5 TXL 7 50
1036. IP GRA 0.5 TXL 7 50
1133. &NP1 IP GRN DK/WHT 0.5 TWP 1 50
1127. &UE1 YEL 0.5 IP TXL 7 50
IP_CL2
DLC_CL2
1049 ENG_CL2
CL2ATC
ONSTAR_CL2
653 CHIME_CL2
IP CLUSTER Class 2 Page 8A-81A-2
DLC Class 2 Page 8A-50A-1
ENGINE CNTLS Pcm/ Ecu Page 8A-20A/B/D-8
ACTIVE TRANSFER CASE 4WD ATC Mdl Page 8A-38a-01
ONSTAR Onstar Module Page 8A-85A-1
CHIME MODULE Chime Module Page 8A-76A-1
Serial Data Link (Class 2)
OBJECT ID h53055a
REVISION 001
STAGE Beta
VERSION 0
LAST CHANGED BY
9:41:16 am
Tuesday, June 24, 2003
ORGANIZATION GMT560
GMT560 05 X
Panel Set: 1 schematic sheet1 12
$IVEDWORK/h53055a__001
Panel Set: 1

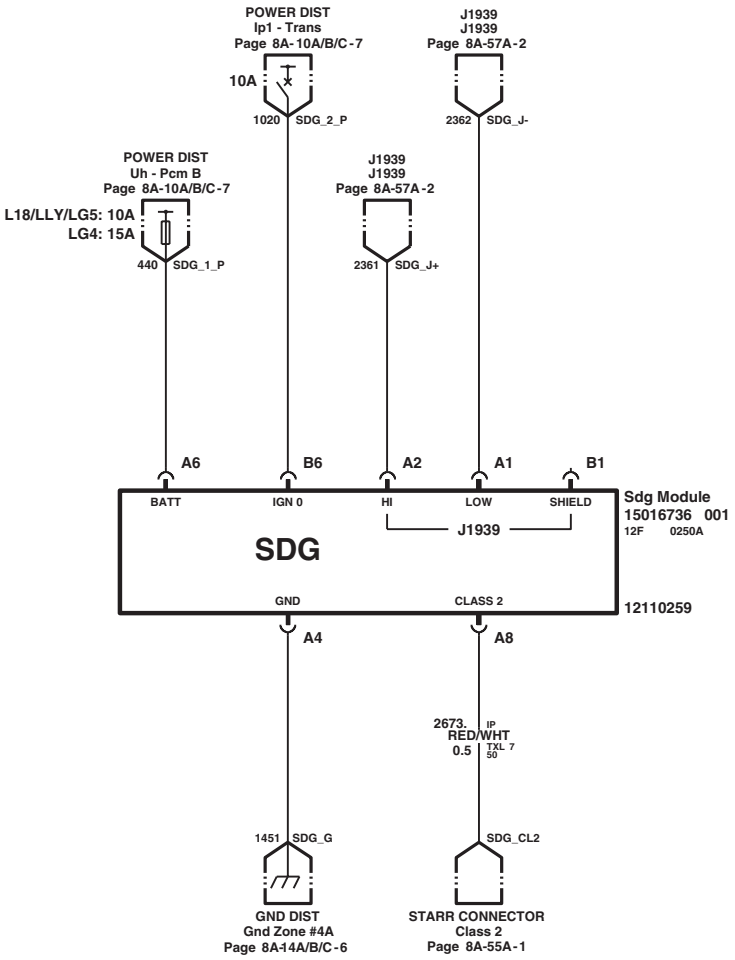
Serial Data — Diagnostic Tool Connector



Diagnostic Tool Connector	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY		ORGANIZATION
GMT560 05 X	h53055b	001	Pilot	B		2:18:07 pm	GMT560
Panel Set: 1 schematic sheet1 5	$IVEDWORK/h53055b__001				Friday, May 9, 2003		Panel Set: 1

Serial Data — Serial Data Gateway (LG5/JE4/MWF)

04i 560 1223	JG	LG4 - Fuse Rating Update	26AU02	001

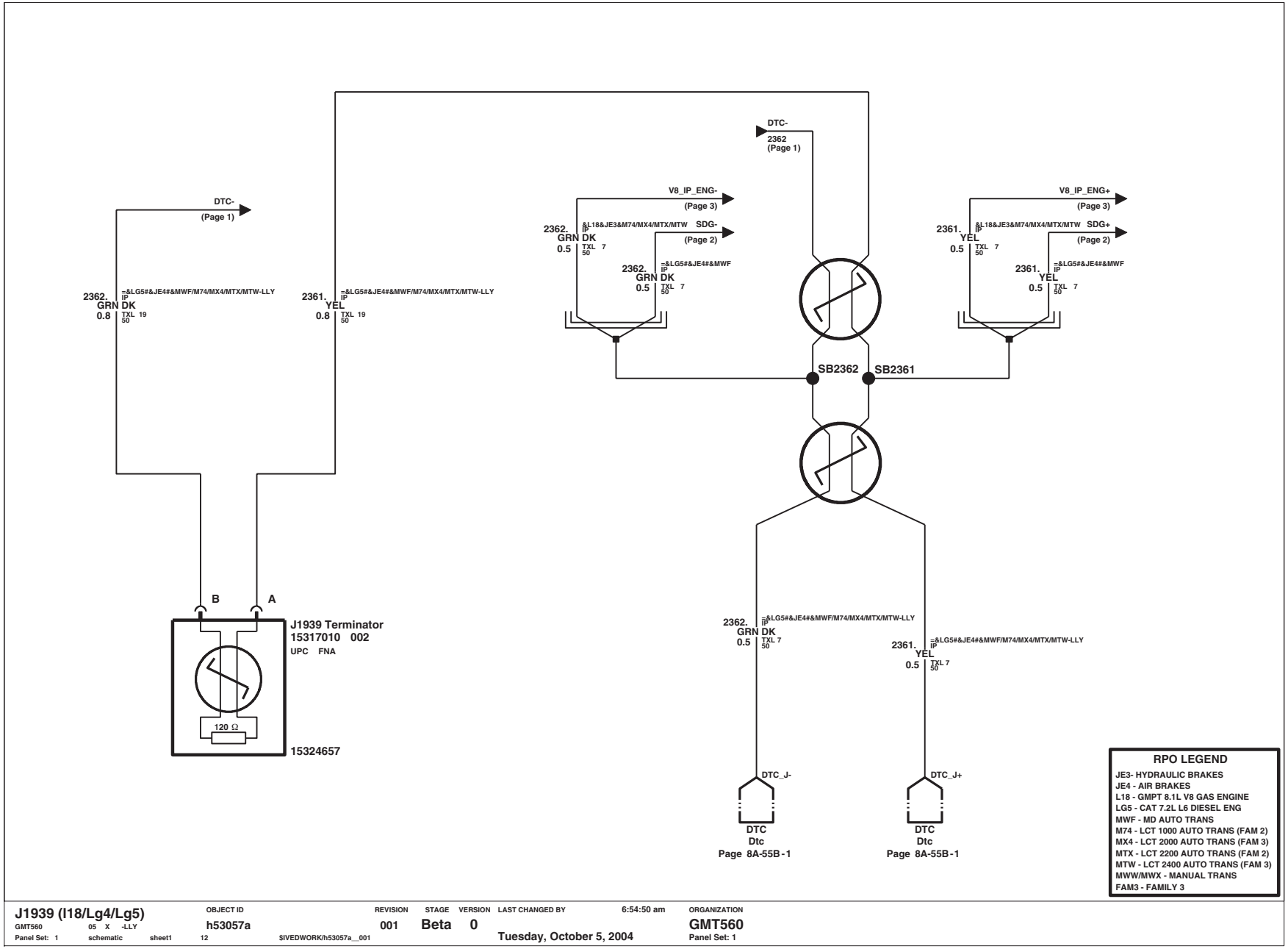


RPO LEGEND

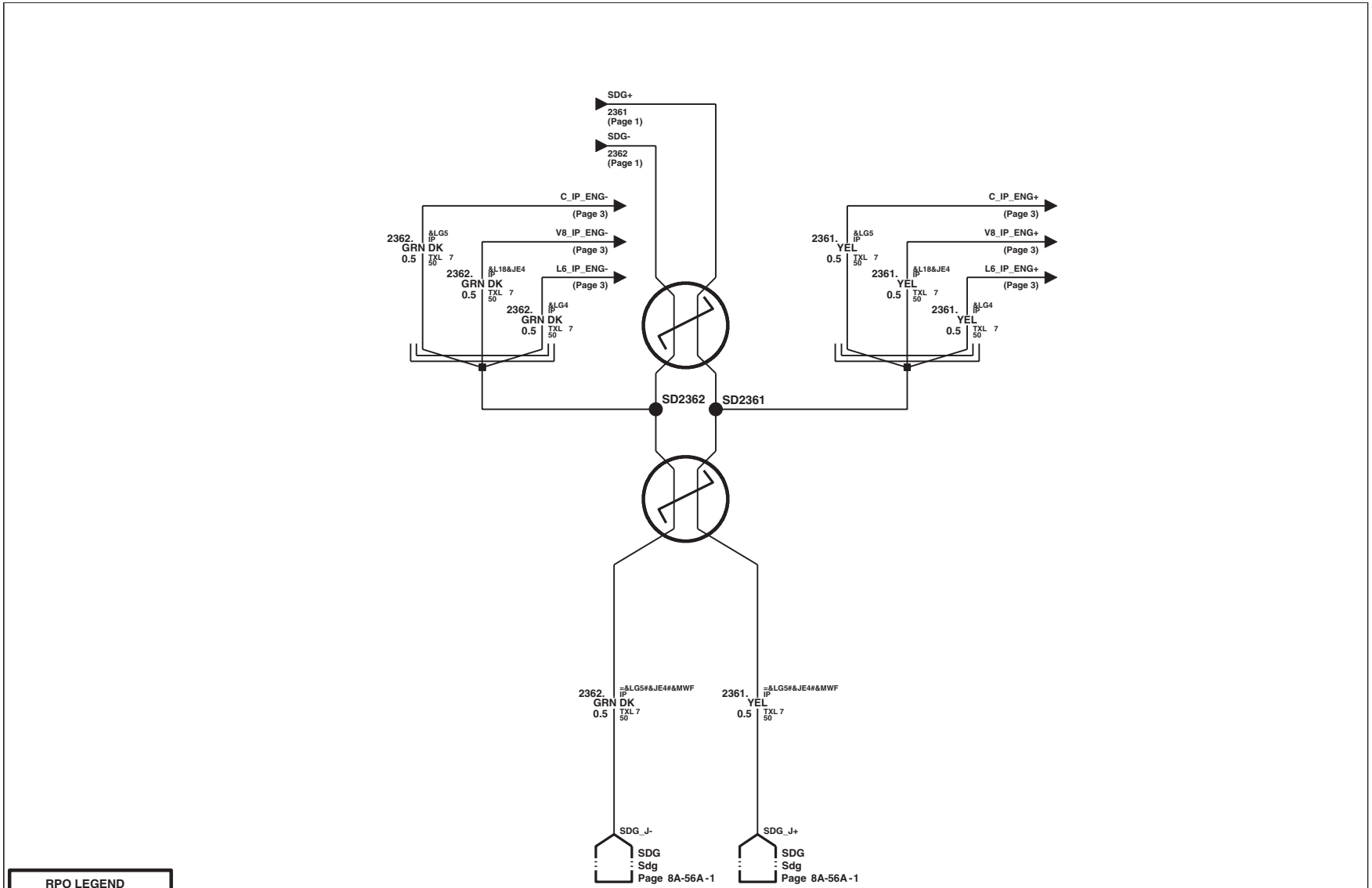
LG5 - CAT 7.2L L6 DIESEL ENGINE
JE4 - AIR BRAKES
MWF - MD AUTO TRANS

Serial Data Gateway	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY	8:20:22 am	ORGANIZATION
GMT560 04i X &LG5#&JE4#&MWF	h44056a	001	Beta	0			GMT560
Panel Set: 1 schematic sheet1 4	$IVEDWORK/h44056a__001				Thursday, August 15, 2002		Panel Set: 1

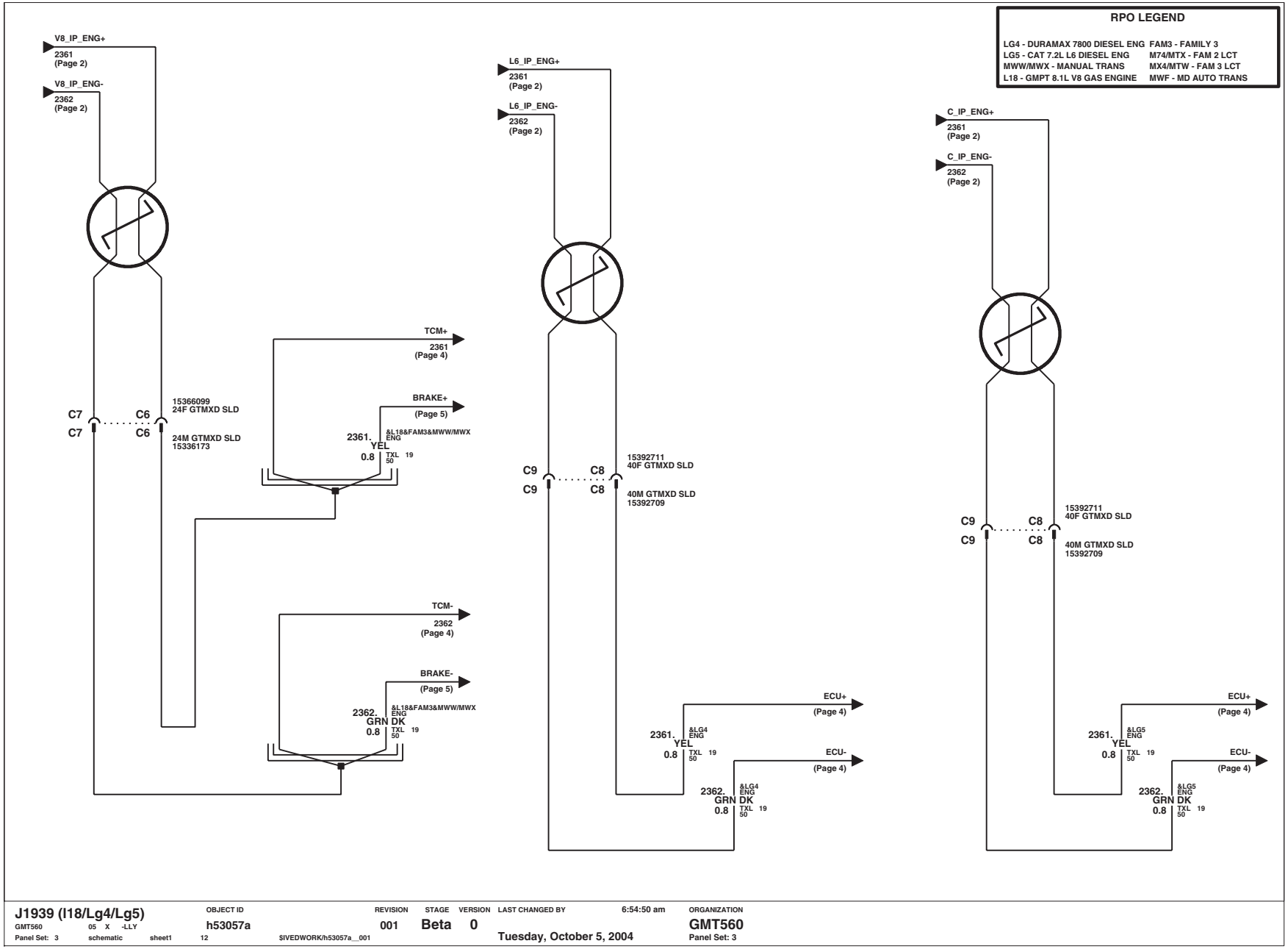
Serial Data — J1939 — (L18) 8.1L-Gas/NAPT — (LG4) 7.8L-Diesel/Duramax — (LG5) 7.2L CAT



Serial Data — J1939 — (L18) 8.1L-Gas/NAPT — (LG4) 7.8L-Diesel/Duramax — (LG5) 7.2L CAT



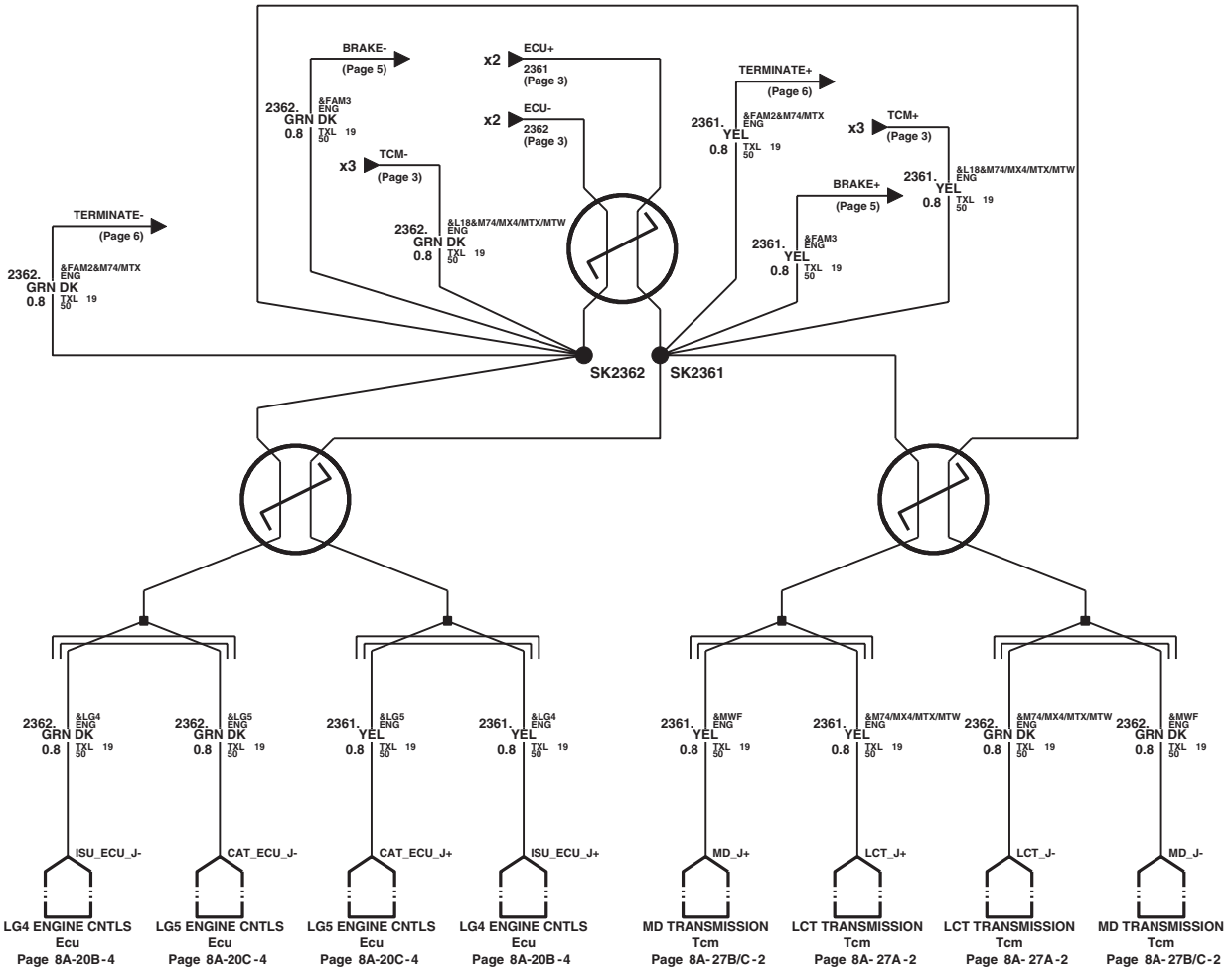
Serial Data — J1939 — (L18) 8.1L-Gas/NAPT — (LG4) 7.8L-Diesel/Duramax — (LG5) 7.2L CAT



Serial Data — J1939 — (L18) 8.1L-Gas/NAPT — (LG4) 7.8L-Diesel/Duramax — (LG5) 7.2L CAT

RPO LEGEND

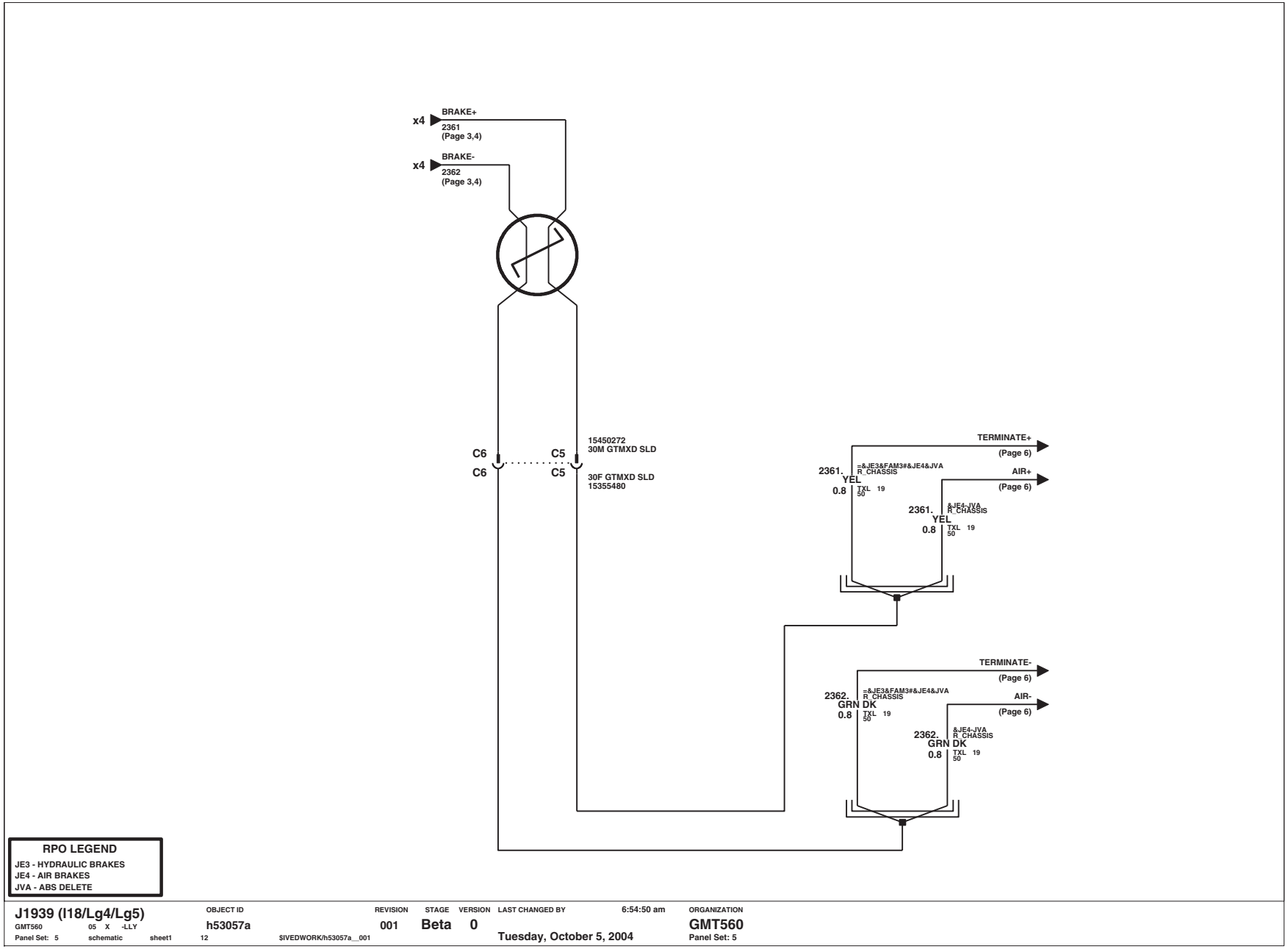
LG5 - CAT 7.2L L6 DIESEL ENG
MWF - MD AUTO TRANS
M74/MTX - FAM 2 LCT
MX4/MTW - FAM 3 LCT
MWW/MWX - MANUAL TRANS


BRAKE- (Page 5)
x2 ECU+ 2361 (Page 3)
2362. &FAM3 ENG GRN DK 0.8 TXL 50 19
x2 ECU- 2362 (Page 3)
x3 TCM- (Page 3)
2362. &L18&M74/MX4/MTX/MTW ENG GRN DK 0.8 TXL 50 19
TERMINATE- (Page 6)
2362. &FAM2&M74/MTX ENG GRN DK 0.8 TXL 50 19
TERMINATE+ (Page 6)
2361. &FAM2&M74/MTX ENG YEL 0.8 TXL 50 19
x3 TCM+ (Page 3)
BRAKE+ (Page 5)
2361. &L18&M74/MX4/MTX/MTW ENG YEL 0.8 TXL 50 19
2361. &FAM3 ENG YEL 0.8 TXL 50 19
SK2362
SK2361
2362. &LG4 ENG GRN DK 0.8 TXL 50 19
2362. &LG5 ENG GRN DK 0.8 TXL 50 19
2361. &LG5 ENG YEL 0.8 TXL 50 19
2361. &LG4 ENG YEL 0.8 TXL 50 19
2361. &MWF ENG YEL 0.8 TXL 50 19
2361. &M74/MX4/MTX/MTW ENG YEL 0.8 TXL 50 19
2362. &M74/MX4/MTX/MTW ENG GRN DK 0.8 TXL 50 19
2362. &MWF ENG GRN DK 0.8 TXL 50 19
ISU_ECU_J-
CAT_ECU_J-
CAT_ECU_J+
ISU_ECU_J+
MD_J+
LCT_J+
LCT_J-
MD_J-
LG4 ENGINE CNTLS Ecu Page 8A-20B-4
LG5 ENGINE CNTLS Ecu Page 8A-20C-4
LG5 ENGINE CNTLS Ecu Page 8A-20C-4
LG4 ENGINE CNTLS Ecu Page 8A-20B-4
MD TRANSMISSION Tcm Page 8A-27B/C-2
LCT TRANSMISSION Tcm Page 8A-27A-2
LCT TRANSMISSION Tcm Page 8A-27A-2
MD TRANSMISSION Tcm Page 8A-27B/C-2

J1939 (I18/Lg4/Lg5)
GMT560 05 X -LLY
Panel Set: 4 schematic sheet1 12

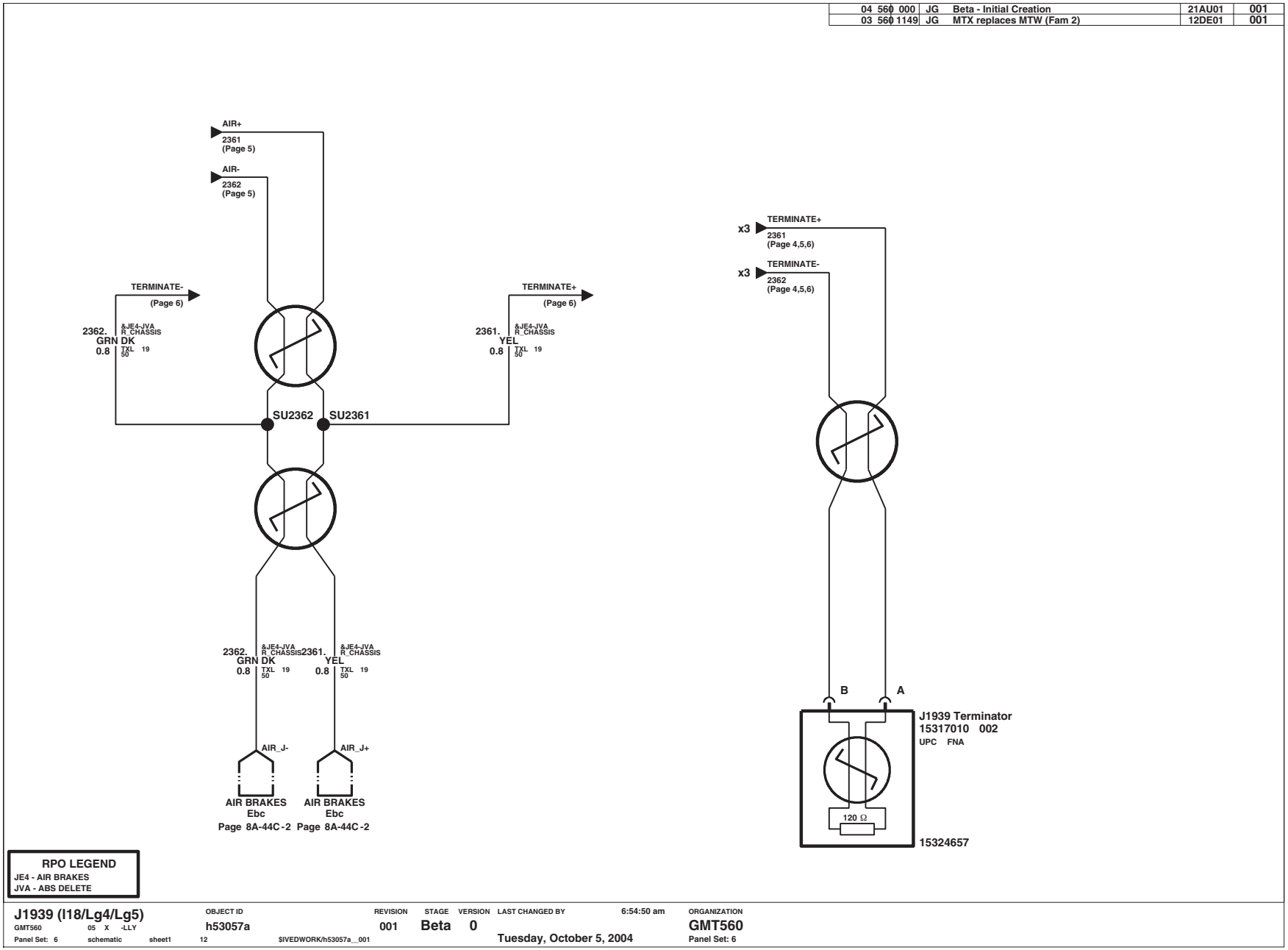
OBJECT ID h53057a
REVISION 001
STAGE Beta
VERSION 0
LAST CHANGED BY
6:54:50 am Tuesday, October 5, 2004
ORGANIZATION GMT560
Panel Set: 4
$IVEDWORK/h53057a__001

Serial Data — J1939 — (L18) 8.1L-Gas/NAPT — (LG4) 7.8L-Diesel/Duramax — (LG5) 7.2L CAT

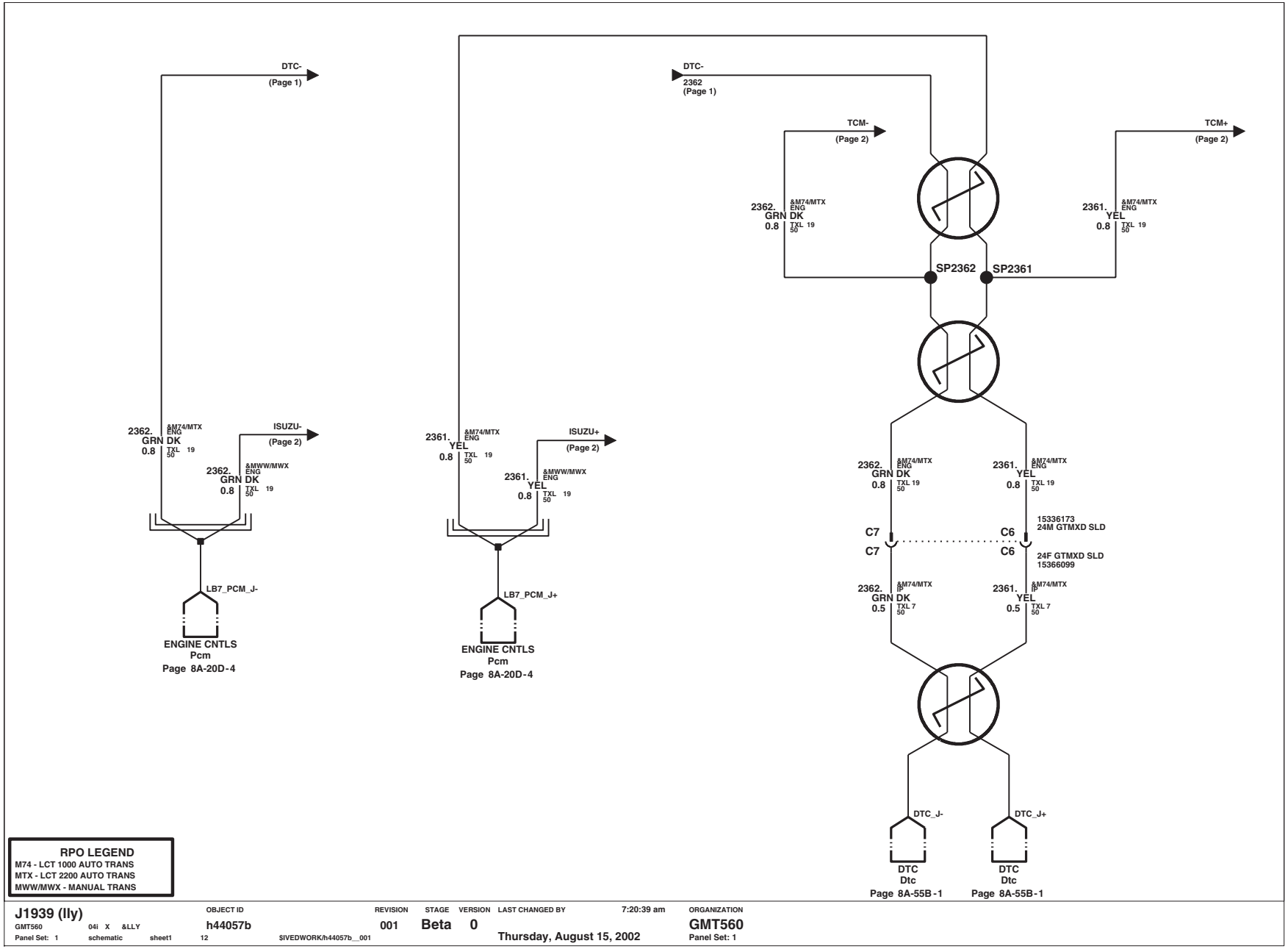


Serial Data — J1939 — (L18) 8.1L-Gas/NAPT — (LG4) 7.8L-Diesel/Duramax — (LG5) 7.2L CAT

04 560 000	JG	Beta - Initial Creation	21AU01	001
03 560 1149	JG	MTX replaces MTW (Fam 2)	12DE01	001



Serial Data — J1939 — (LLY) 6.6L-Diesel/Duramax



Serial Data — J1939 — (LLY) 6.6L-Diesel/Duramax

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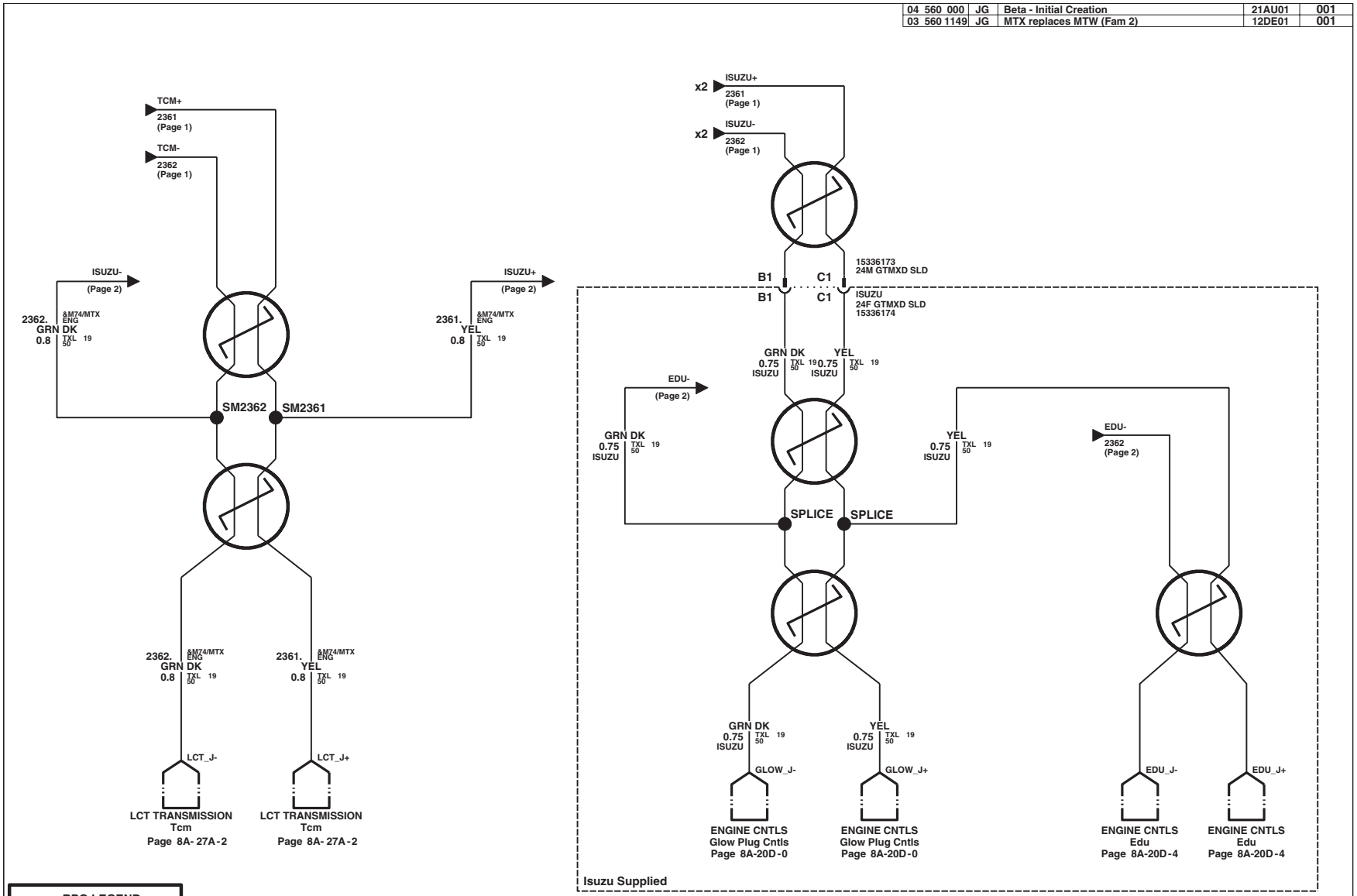
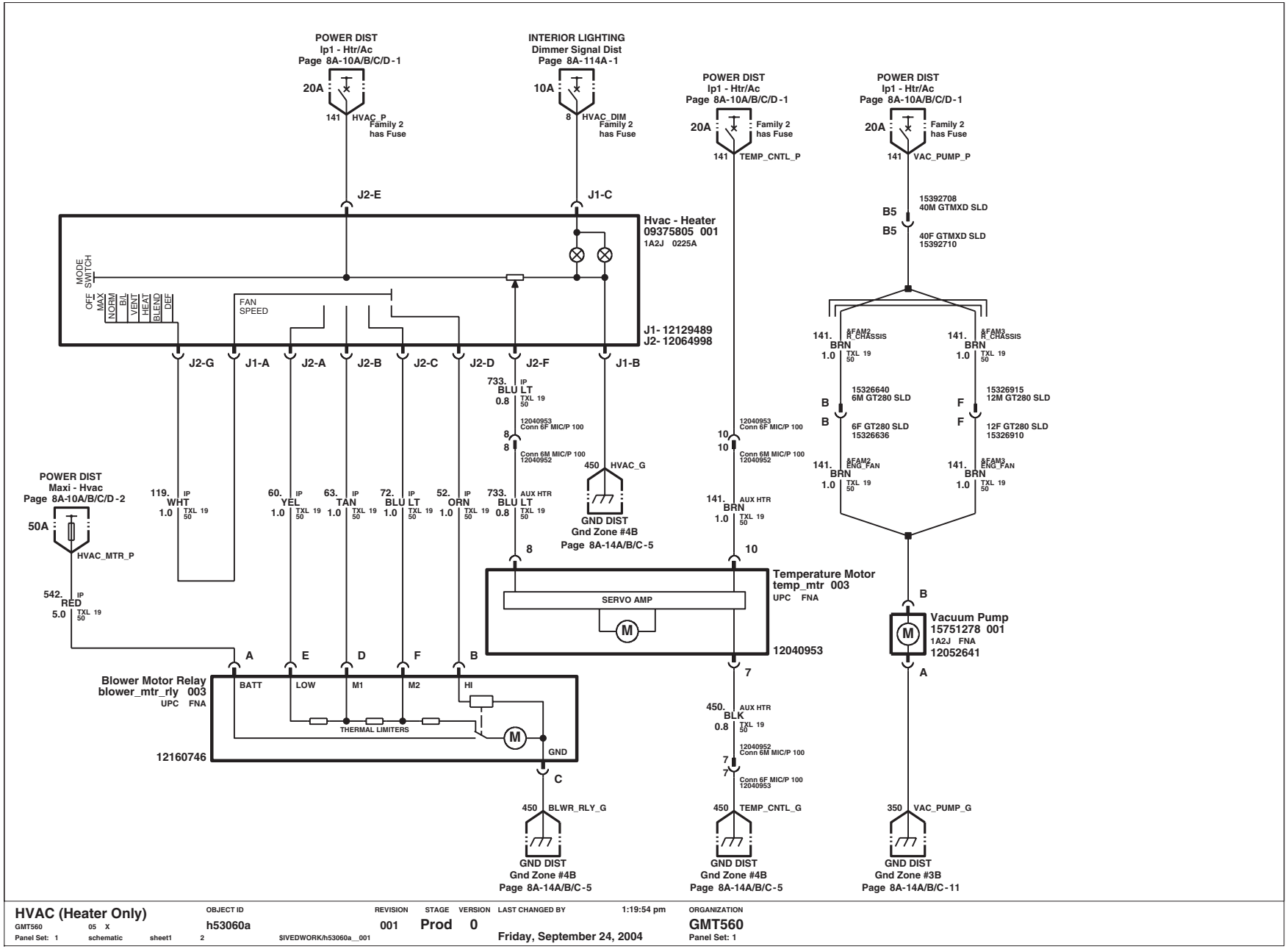
03 560 1149	JG	MTX replaces MTW (Fam 2)	12DE01	001

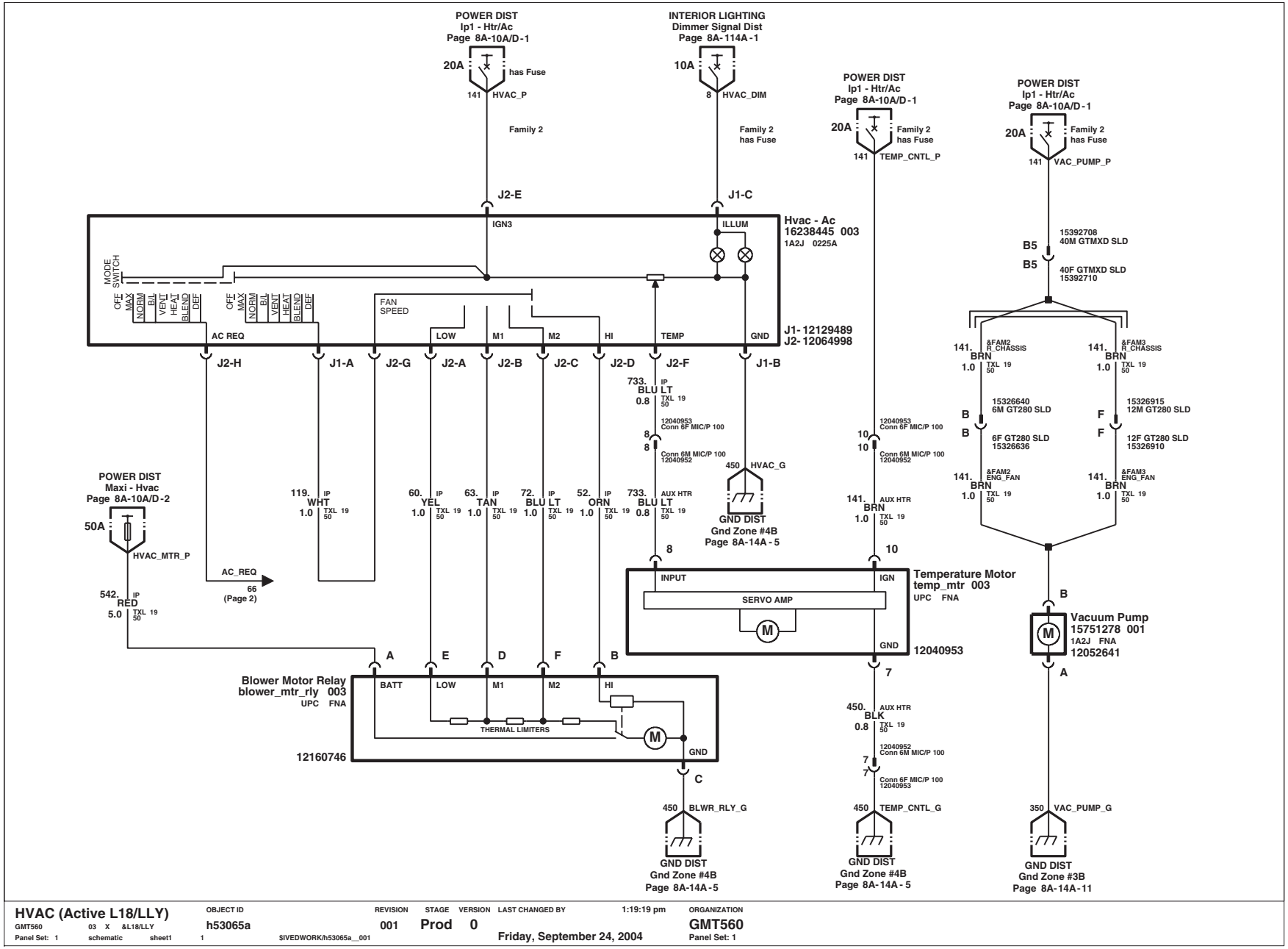


HVAC — Heater Only

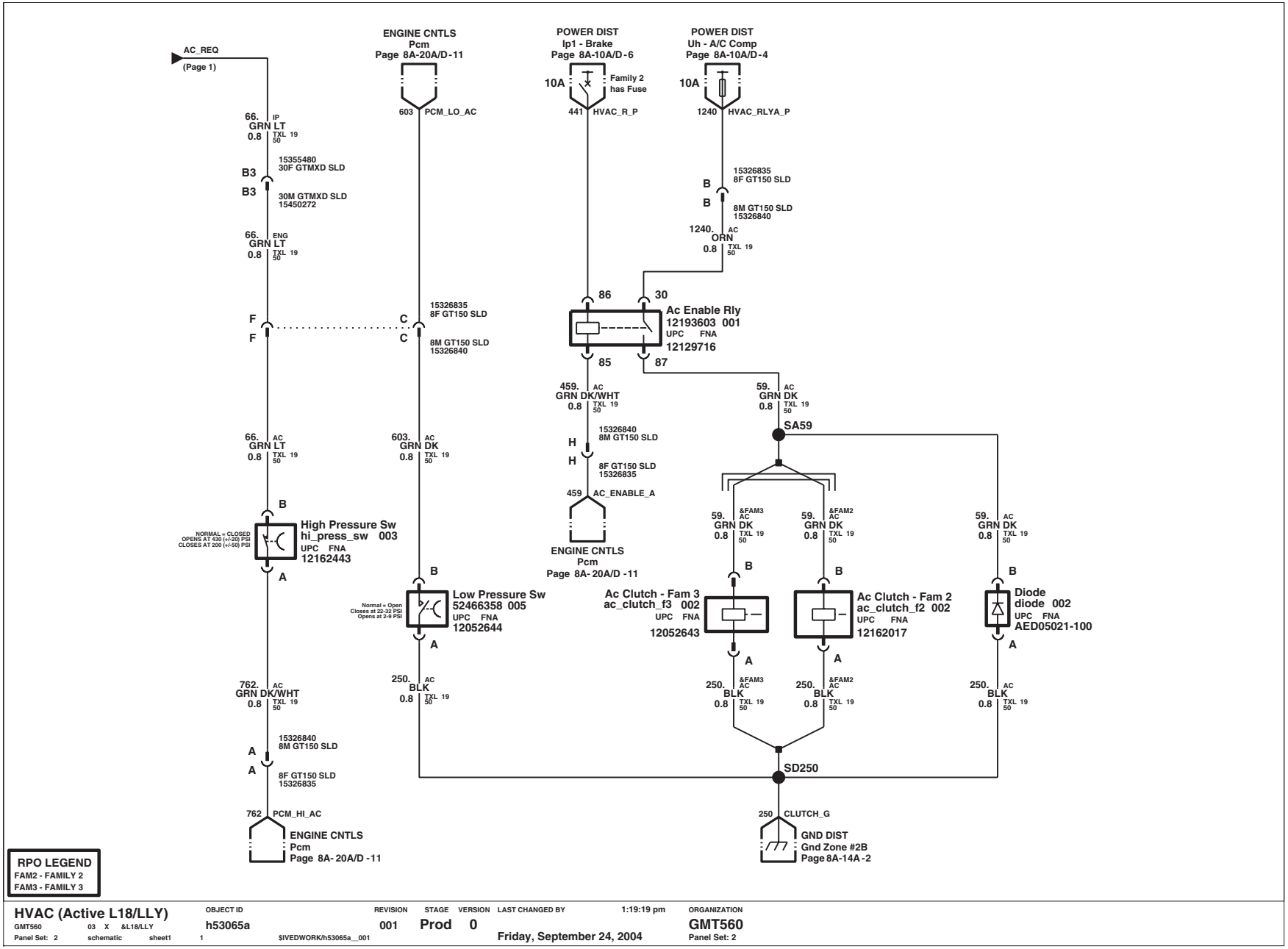


HVAC (Heater Only)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY		ORGANIZATION
GMT560 05 X	h53060a	001	Prod	0		1:19:54 pm	GMT560
Panel Set: 1 schematic sheet1 2	$IVEDWORK/h53060a__001				Friday, September 24, 2004		Panel Set: 1

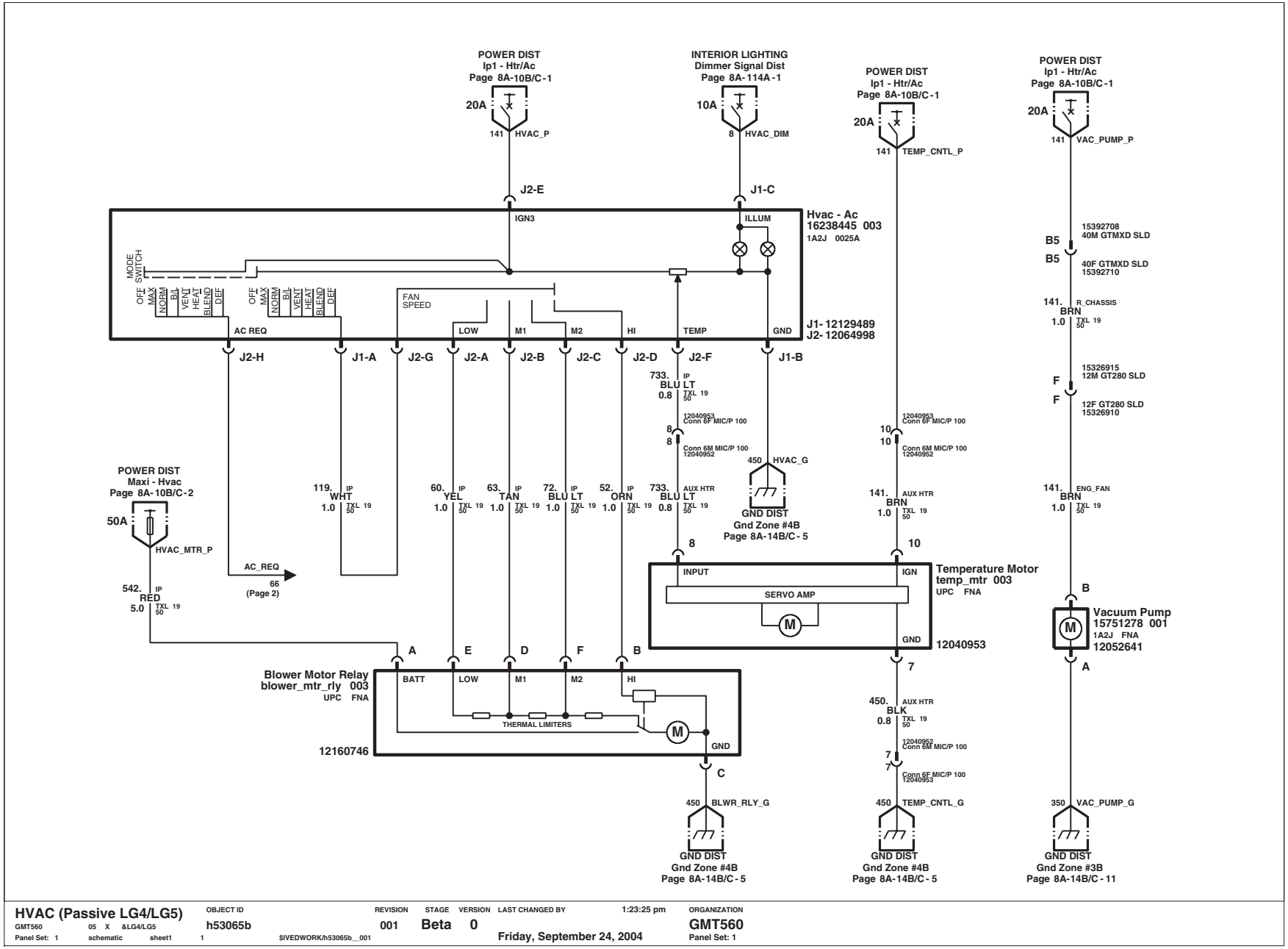
HVAC — Active — (L18) 8.1L-Gas/NAPT — (LLY) 6.6L-Diesel/Duramax



HVAC — Active — (L18) 8.1L-Gas/NAPT — (LLY) 6.6L-Diesel/Duramax

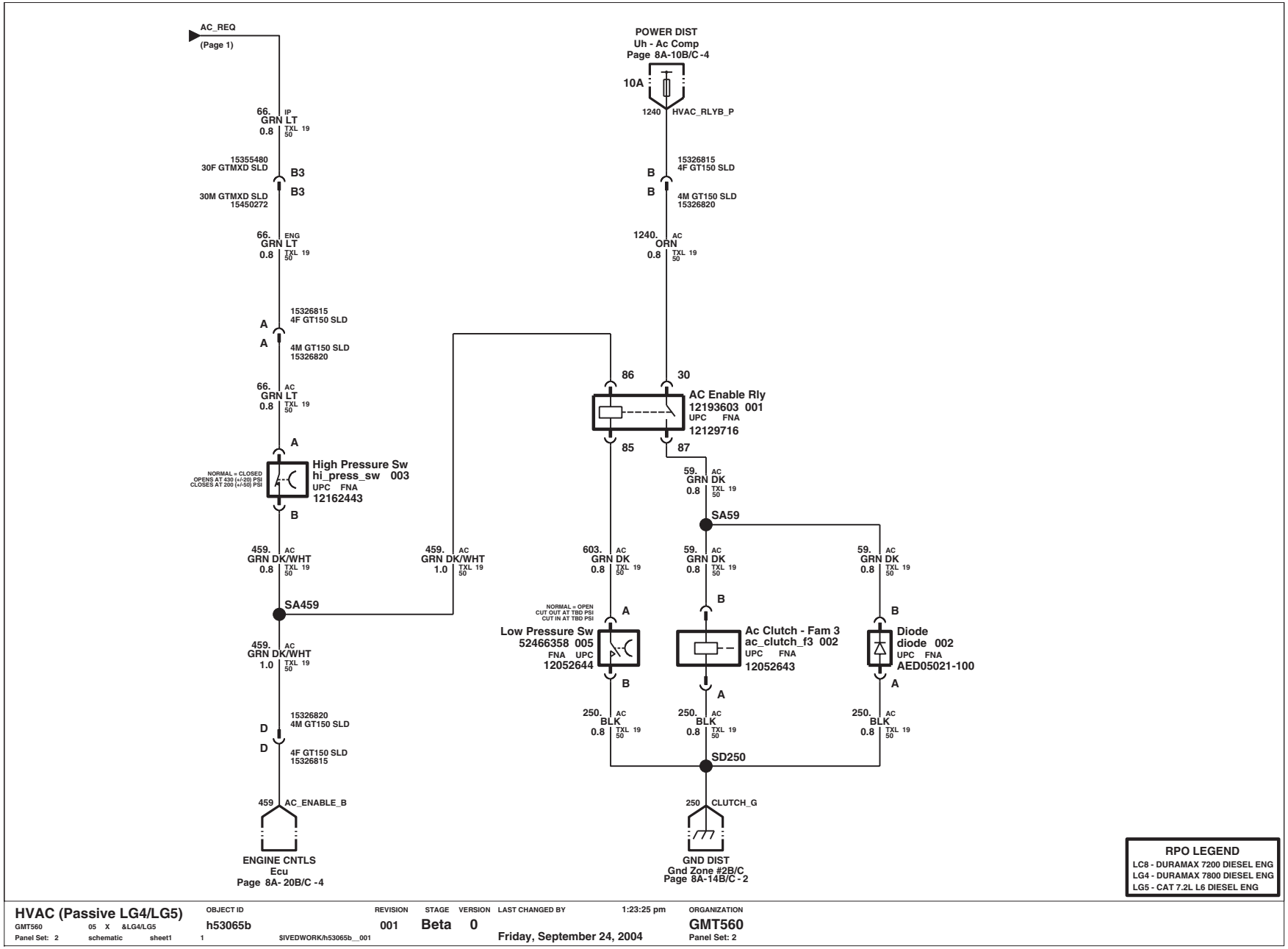


HVAC — Passive — (LG4) 7.8L-Diesel/Duramax — (LG5) 7.2L CAT



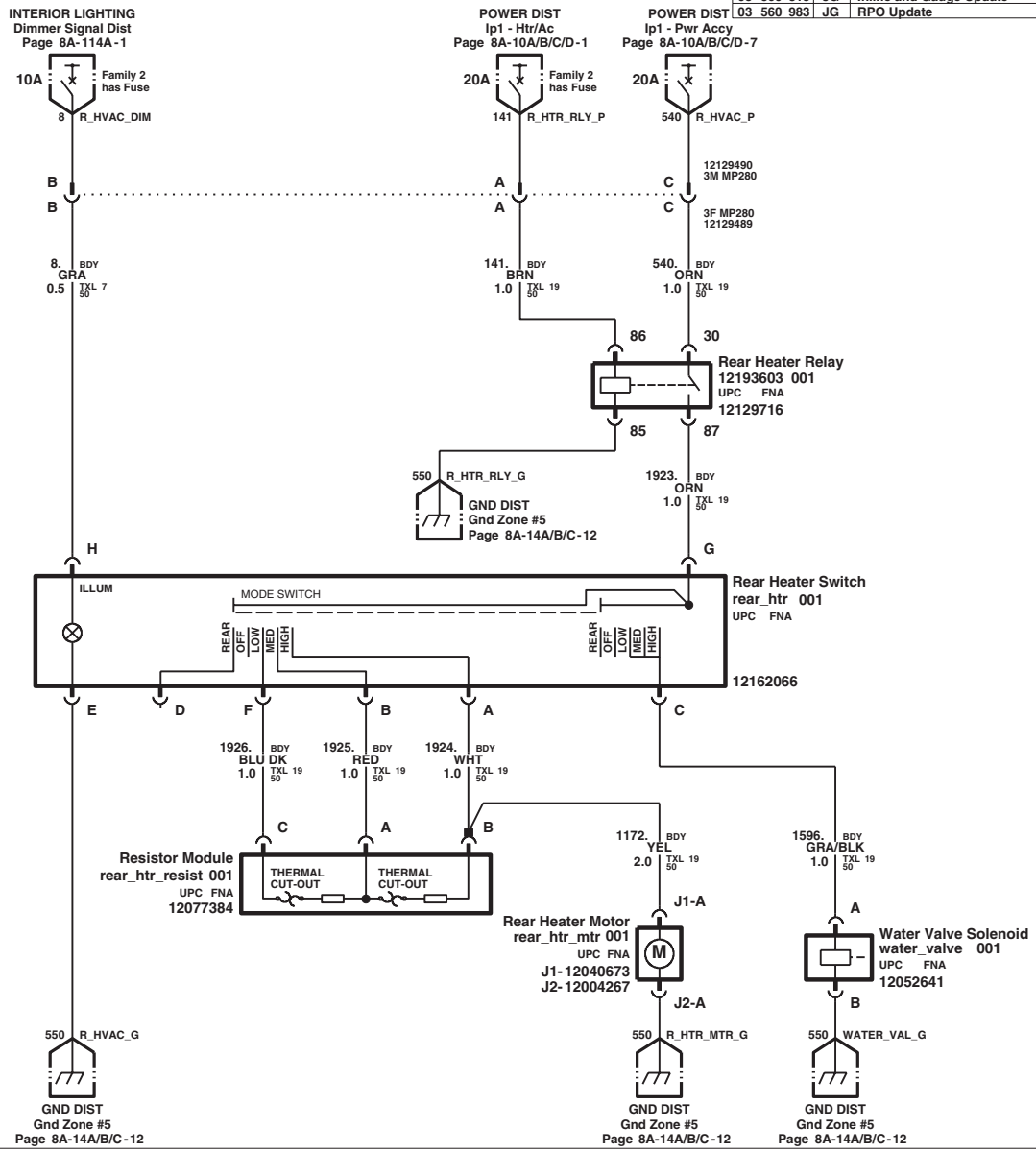
HVAC (Passive LG4/LG5)	OBJECT ID		REVISION	STAGE	VERSION	LAST CHANGED BY	1:23:25 pm	ORGANIZATION
GMT560 05 X &LG4/LG5	**h53065b**		**001**	**Beta**	**0**			**GMT560**
Panel Set: 1 schematic sheet1 1		$IVEDWORK/h53065b__001				**Friday, September 24, 2004**		Panel Set: 1

HVAC — Passive — (LG4) 7.8L-Diesel/Duramax — (LG5) 7.2L CAT



HVAC — Rear Heater (Crew Cab)

03 560 000	JG	PILOT B - INITIAL CREATION	21NO00	001
03 560 818	JG	Inline and Gauge Update	21NO00	001
03 560 983	JG	RPO Update	10AP01	001



Rear Heater (Crew Cab)

GMT560 03 X &C36 Panel Set: 1 schematic sheet1 38

OBJECT ID h22066a

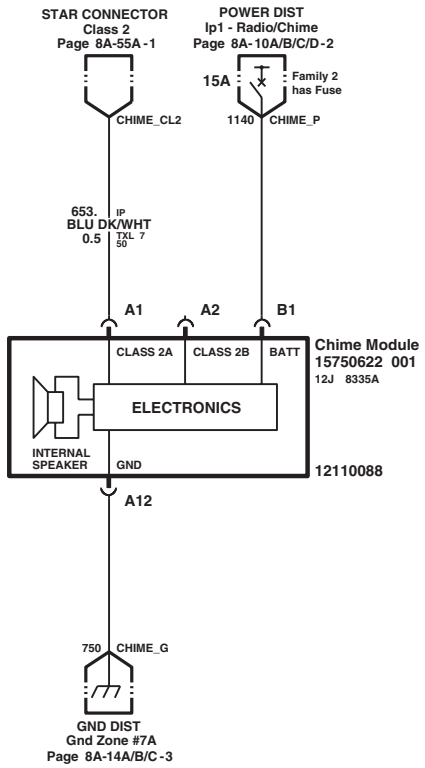
REVISION 003 STAGE Prod VERSION 0 LAST CHANGED BY 9:59:51 am Thursday, August 8, 2002

$IVEDWORK/h22066a__003

ORGANIZATION GMT560 Panel Set: 1

Chime

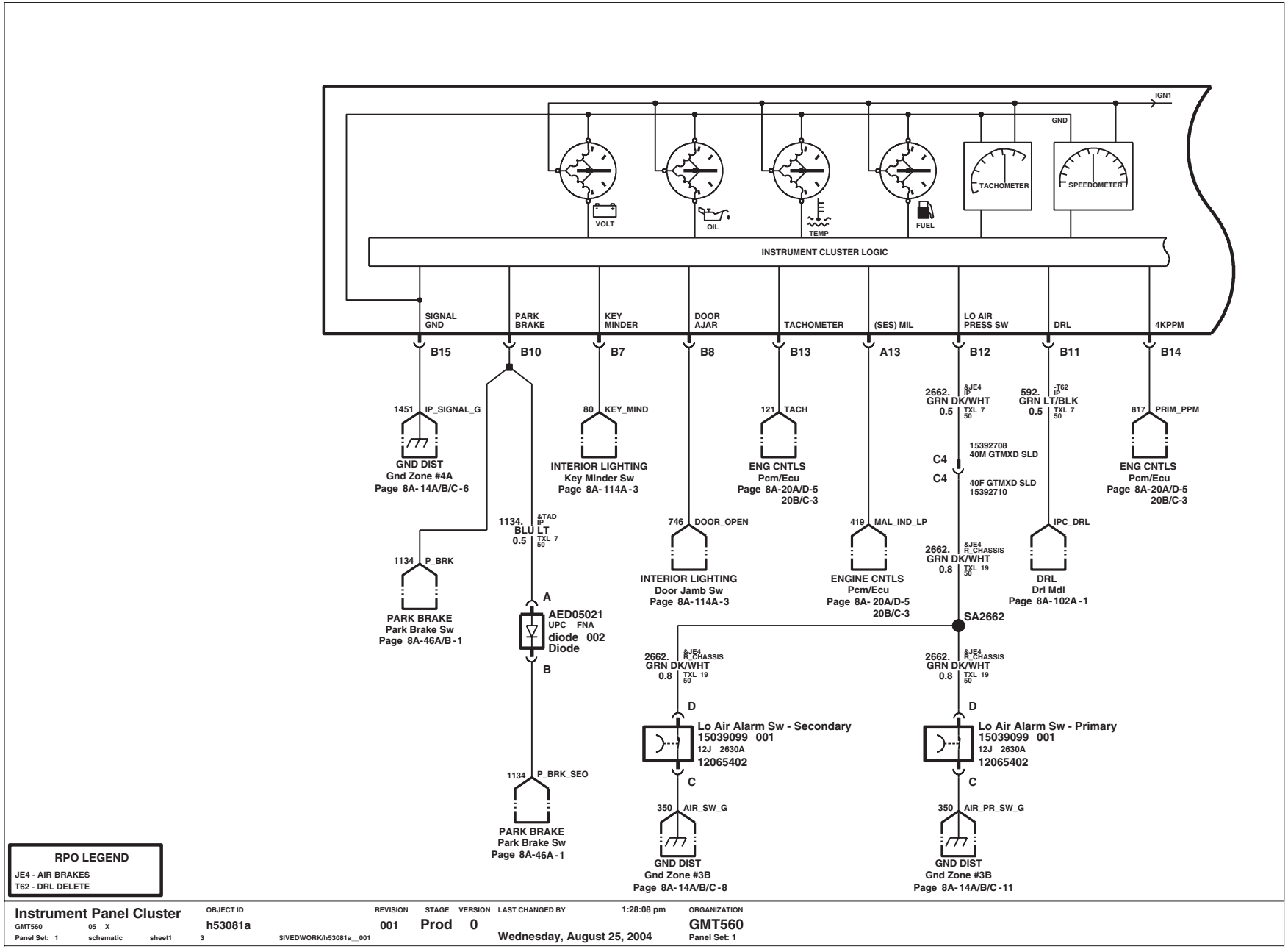
03 560 000	TY	PILOT B - INITIAL CREATION	27NO00	001
03 560 000	TY	ADDED FAM2 NOTE.	27NO00	001



Chime
GMT560 03 X &UXZ
Panel Set: 1 schematic sheet1 58 $IVEDWORK/h22076a__008

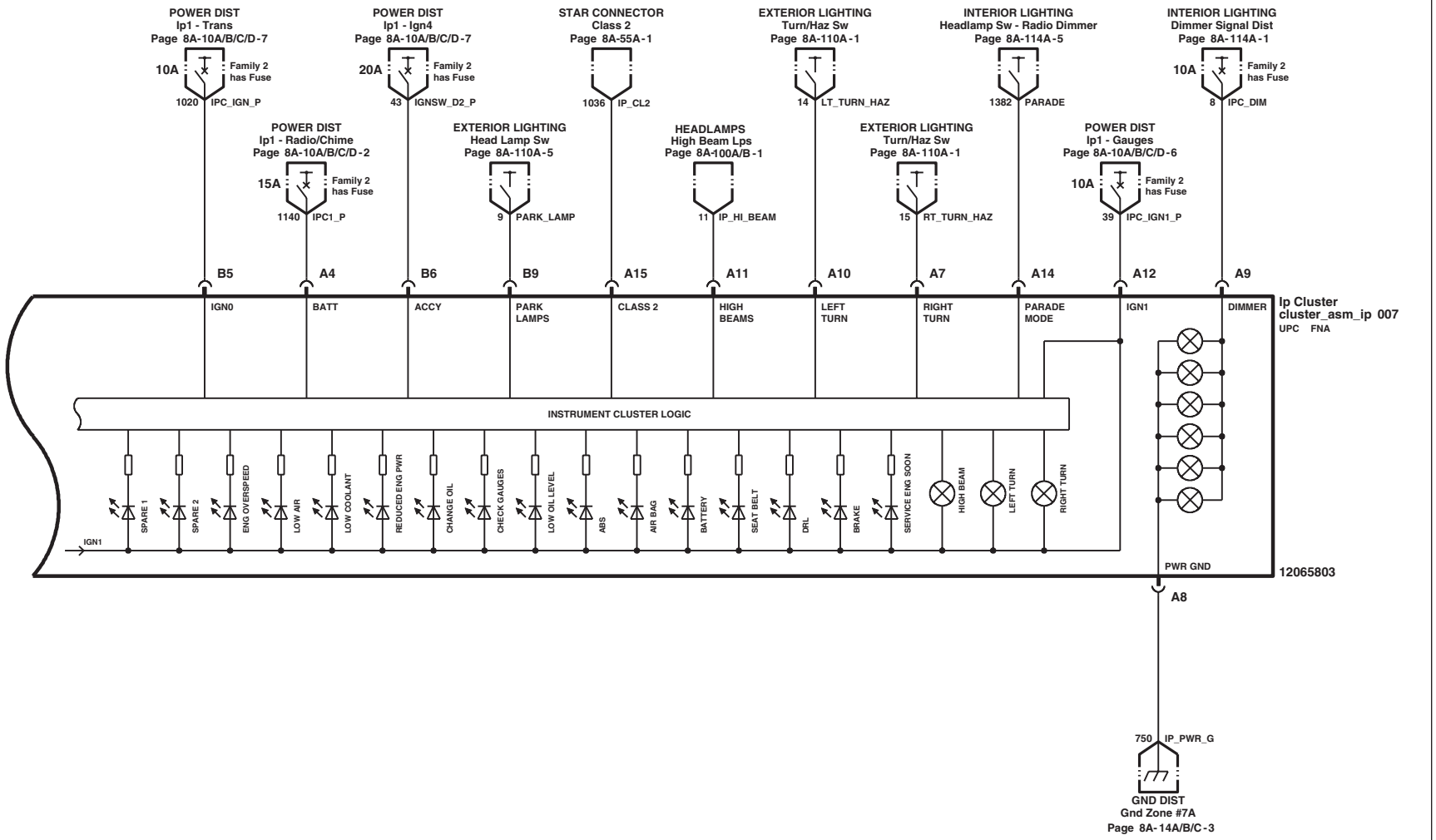
OBJECT ID h22076a
REVISION 008
STAGE Prod
VERSION 0
LAST CHANGED BY
6:24:31 am Tuesday, August 13, 2002
ORGANIZATION GMT560
Panel Set: 1

Displays — Instrument Panel Cluster



Displays — Instrument Panel Cluster

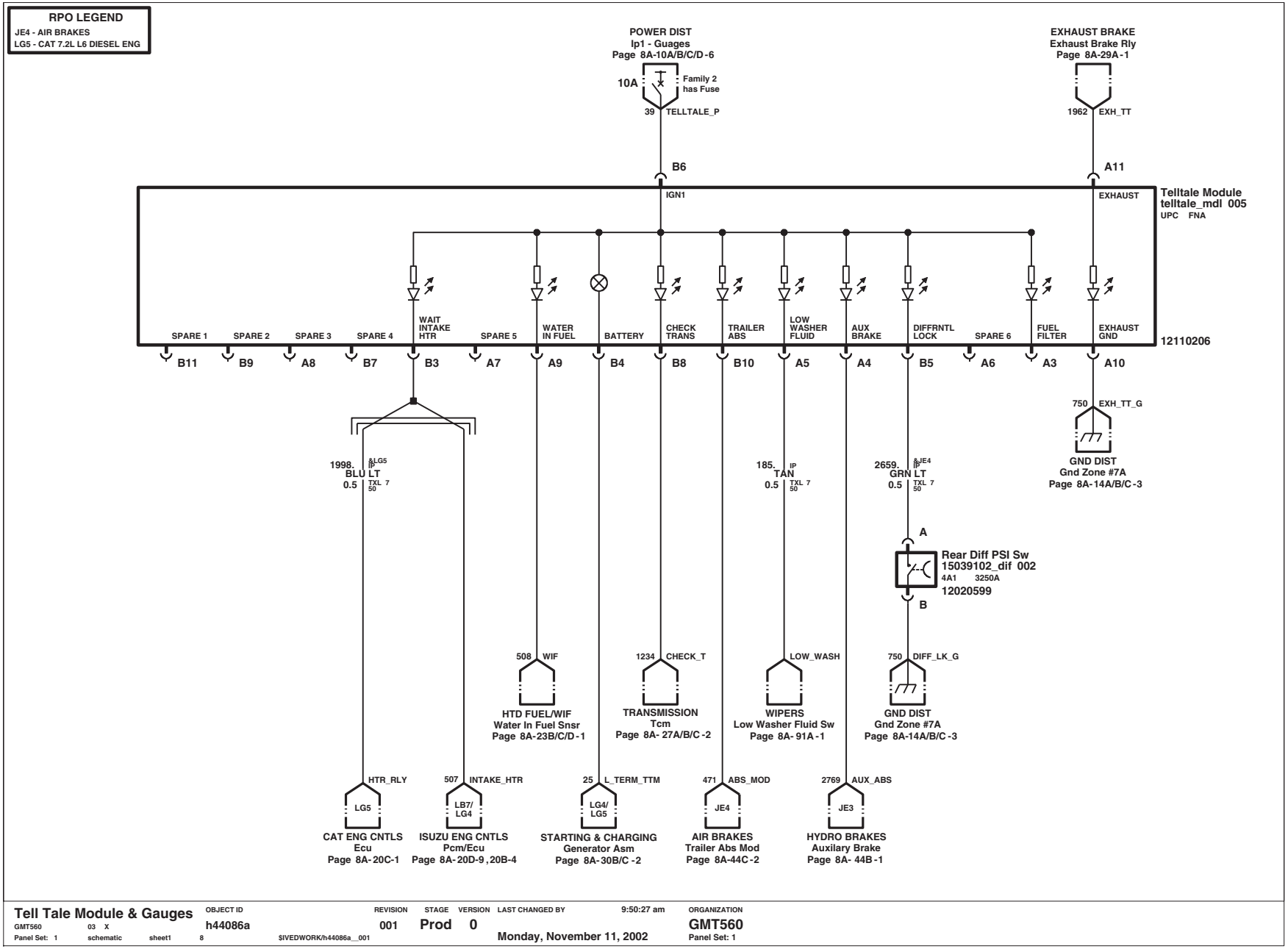
03 560 000	TY	PILOT B - INITIAL CREATION	07SE00	001
03 560 000	TY	Remove Park Brk from DRL Telltale	07SE00	001
03 560 000	TY	ADDED FAM2 NOTE.	27NO00	001



Instrument Panel Cluster
GMT560 05 X Panel Set: 2 schematic sheet1 3

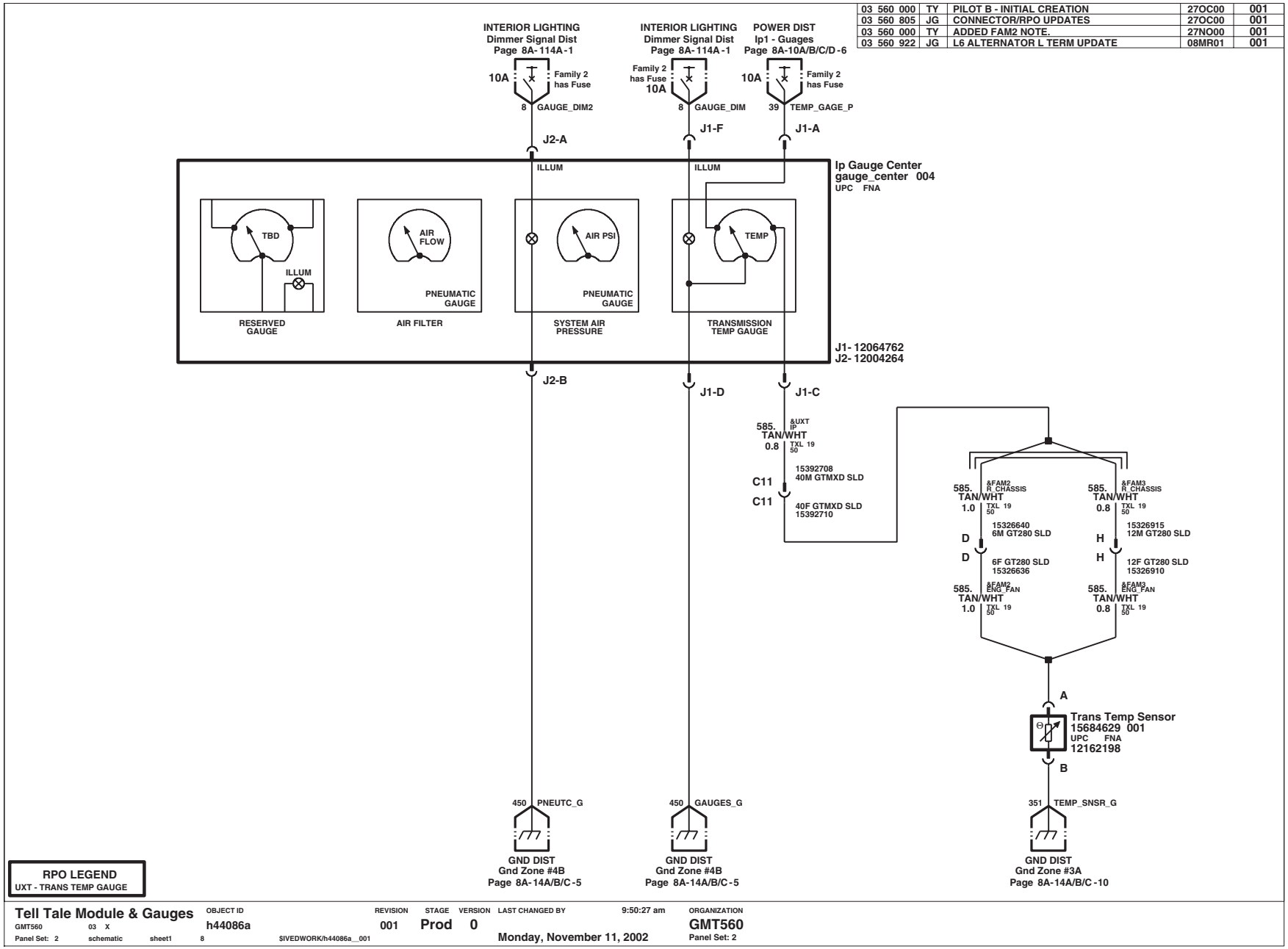
OBJECT ID: h53081a
REVISION: 001
STAGE: Prod
VERSION: 0
LAST CHANGED BY:
1:28:08 pm Wednesday, August 25, 2004
ORGANIZATION: GMT560
Panel Set: 2
$IVEDWORK/h53081a__001

Displays — Tell Tale Gauges



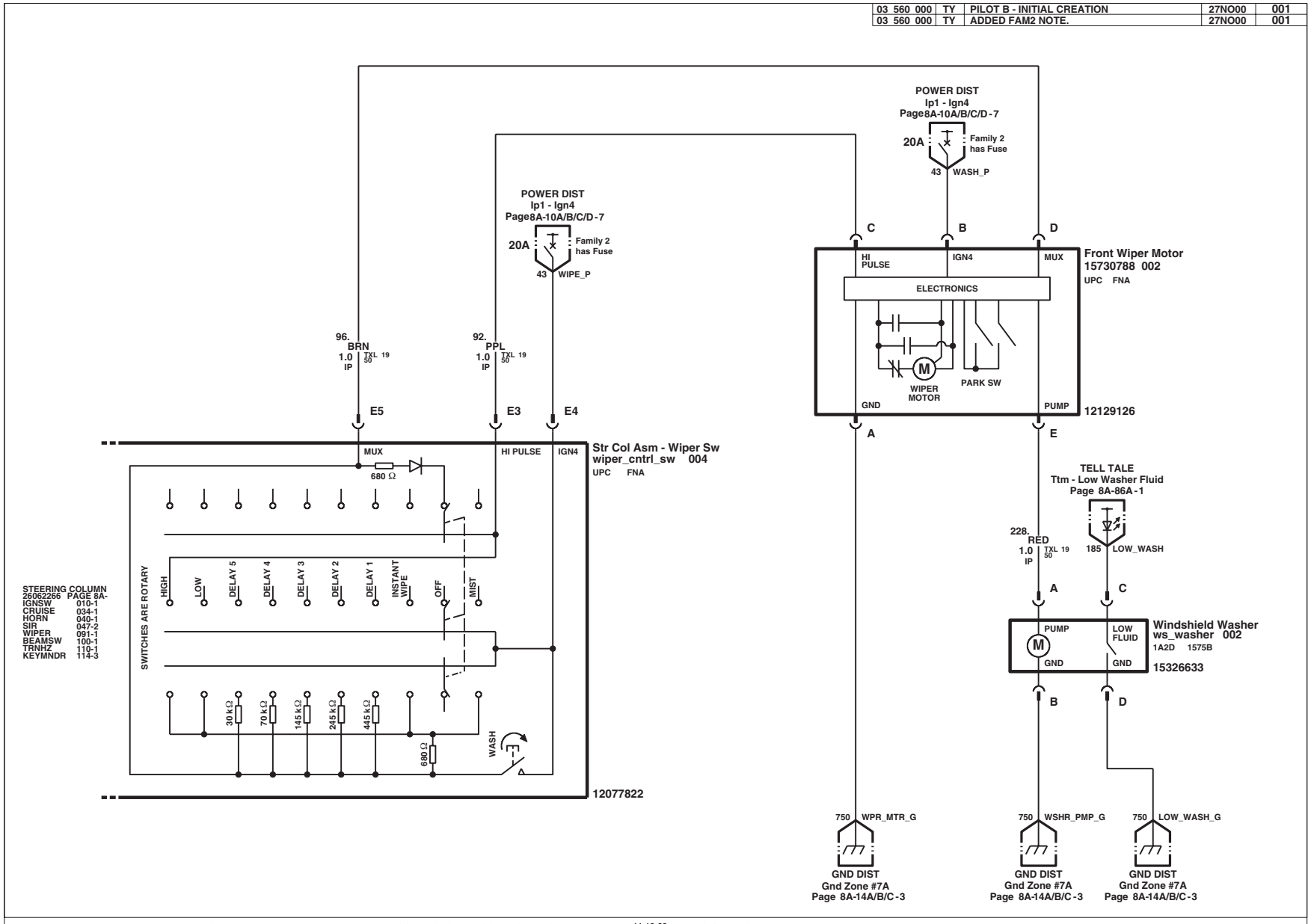
Displays — Tell Tale Gauges

03 560 000	TY	PILOT B - INITIAL CREATION	27OC00	001
03 560 805	JG	CONNECTOR/RPO UPDATES	27OC00	001
03 560 000	TY	ADDED FAM2 NOTE.	27NO00	001
03 560 922	JG	L6 ALTERNATOR L TERM UPDATE	08MR01	001



Wipers and Washer

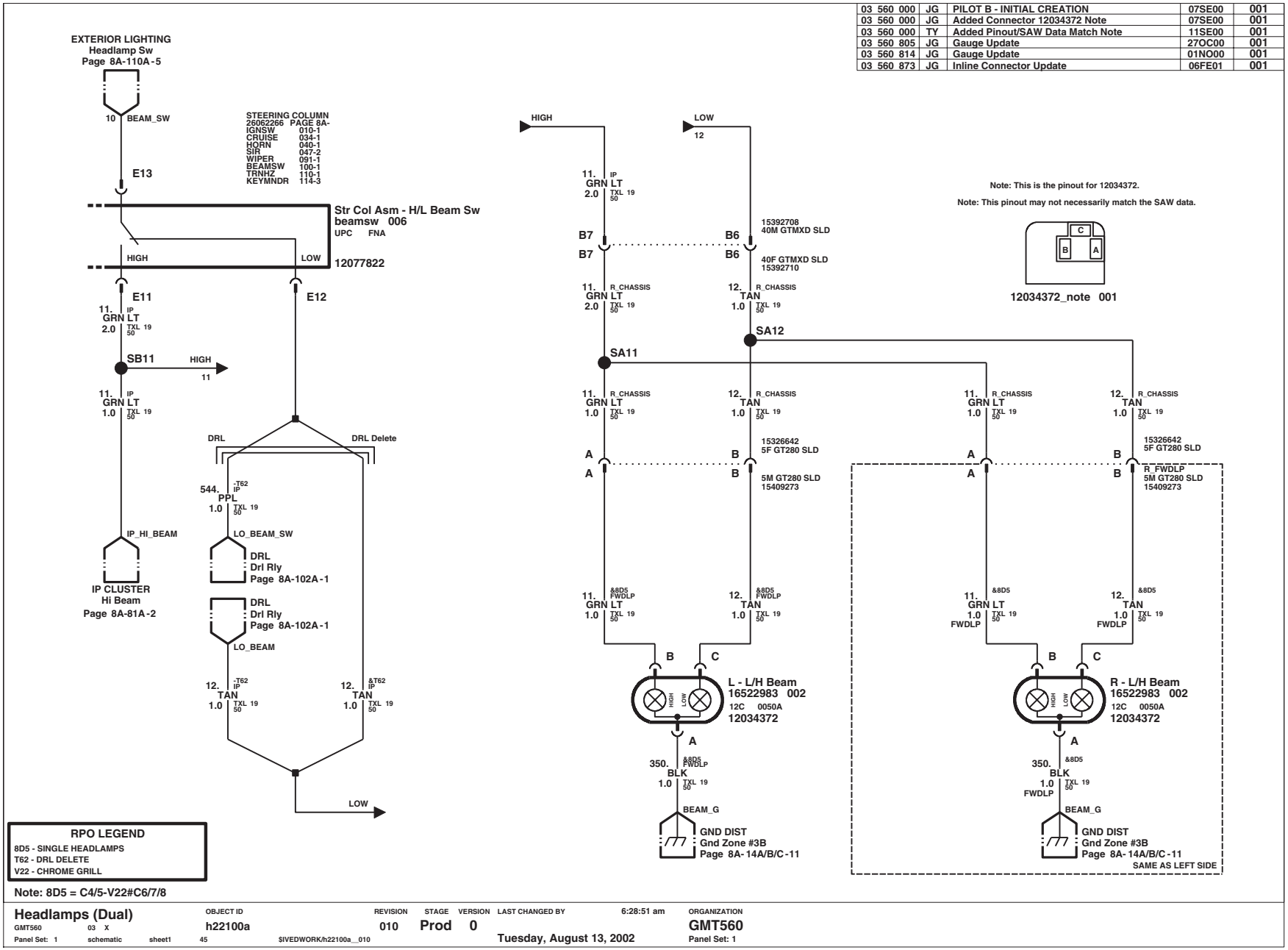
03 560 000	TY	PILOT B - INITIAL CREATION	27NO00	001
03 560 000	TY	ADDED FAM2 NOTE.	27NO00	001



Wipers & Wash	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY		ORGANIZATION
GMT560 03 X	h22091a	009	Pilot	B		11:10:09 am	GMT560
Panel Set: 1 schematic sheet1 116	$IVEDWORK/h22091a__009				Wednesday, March 13, 2002		Panel Set: 1

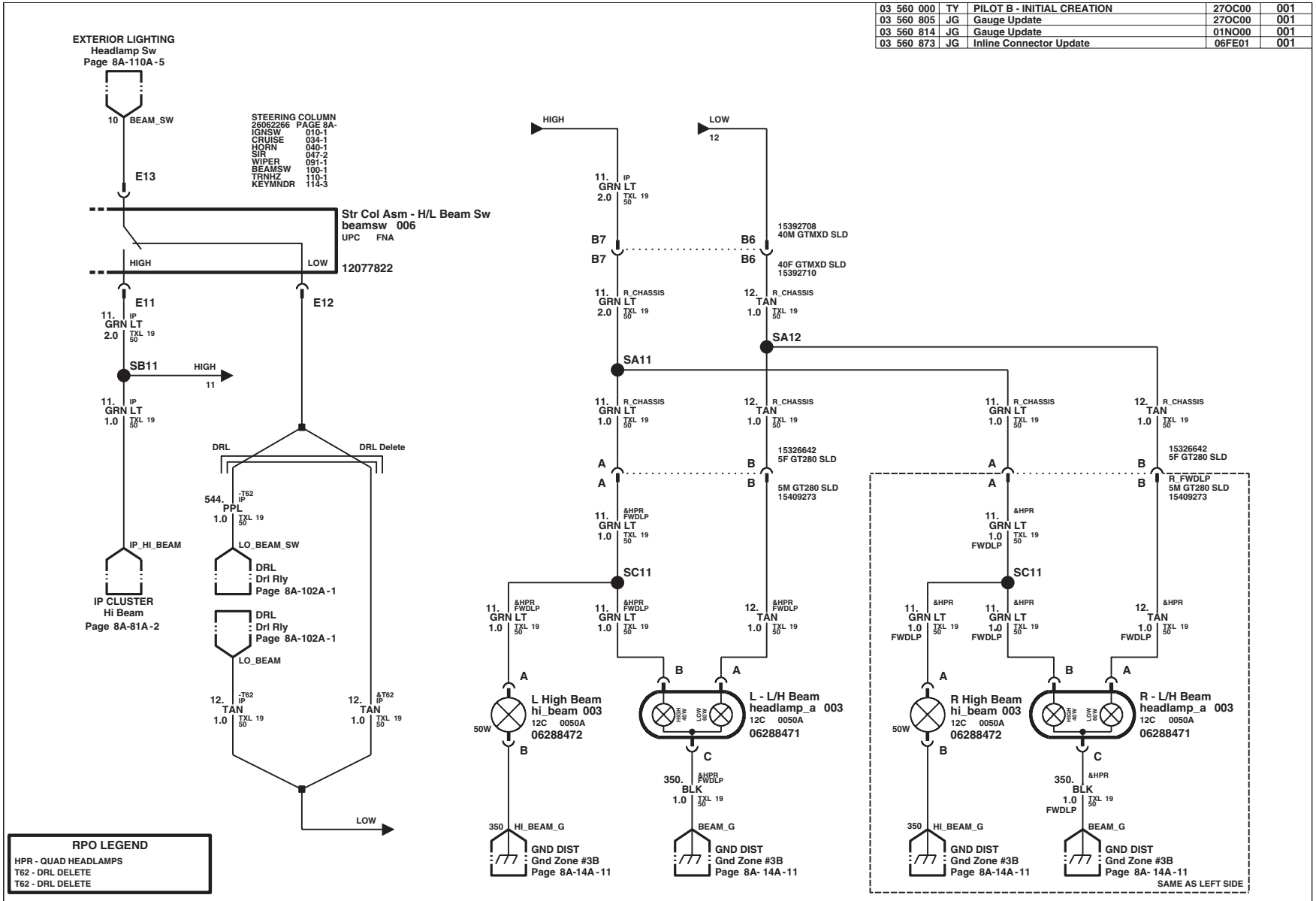
Headlamps — Dual

03 560 000	JG	PILOT B - INITIAL CREATION	07SE00	001
03 560 000	JG	Added Connector 12034372 Note	07SE00	001
03 560 000	TY	Added Pinout/SAW Data Match Note	11SE00	001
03 560 805	JG	Gauge Update	27OC00	001
03 560 814	JG	Gauge Update	01NO00	001
03 560 873	JG	Inline Connector Update	06FE01	001



Headlamps — Quad (Family 2)

03_560_000	TY	PILOT B - INITIAL CREATION	27OC00	001
03_560_805	JG	Gauge Update	27OC00	001
03_560_814	JG	Gauge Update	01NO00	001
03_560_873	JG	Inline Connector Update	06FE01	001

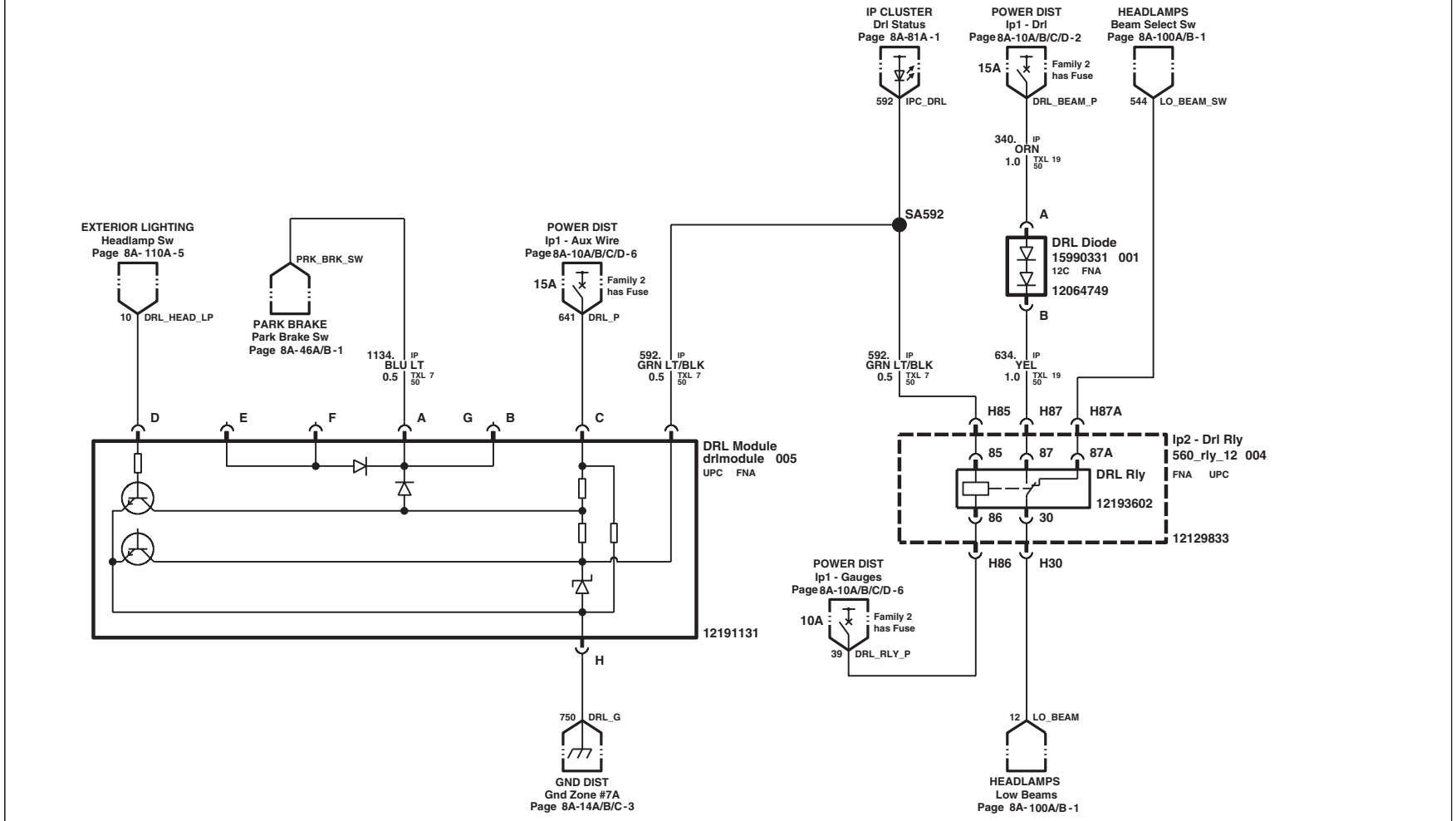


Note: HPR = C4/5&V22

Headlamps (Quad Family 2)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY		ORGANIZATION
GMT560 03 X &FAM2	h22100b	009	Prod	0	6:31:52 am Tuesday, August 13, 2002		GMT560
Panel Set: 1 schematic sheet1 6	$IVEDWORK/h22100b__009						Panel Set: 1

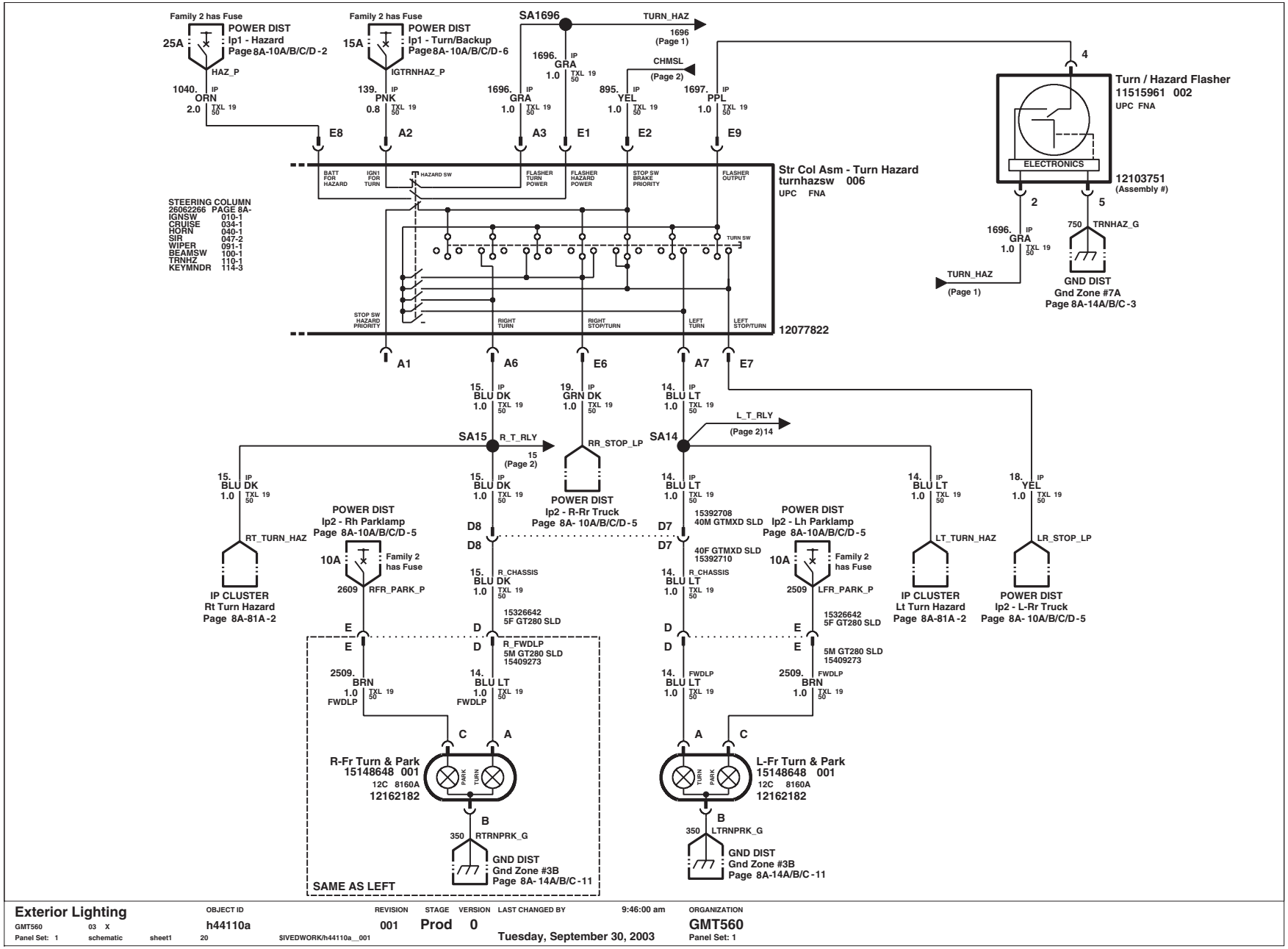
Daytime Running Lamps

03 560 000	TY	PILOT B - INITIAL CREATION	27NO00	001
03 560 000	TY	ADDED FAM2 NOTE.	27NO00	001

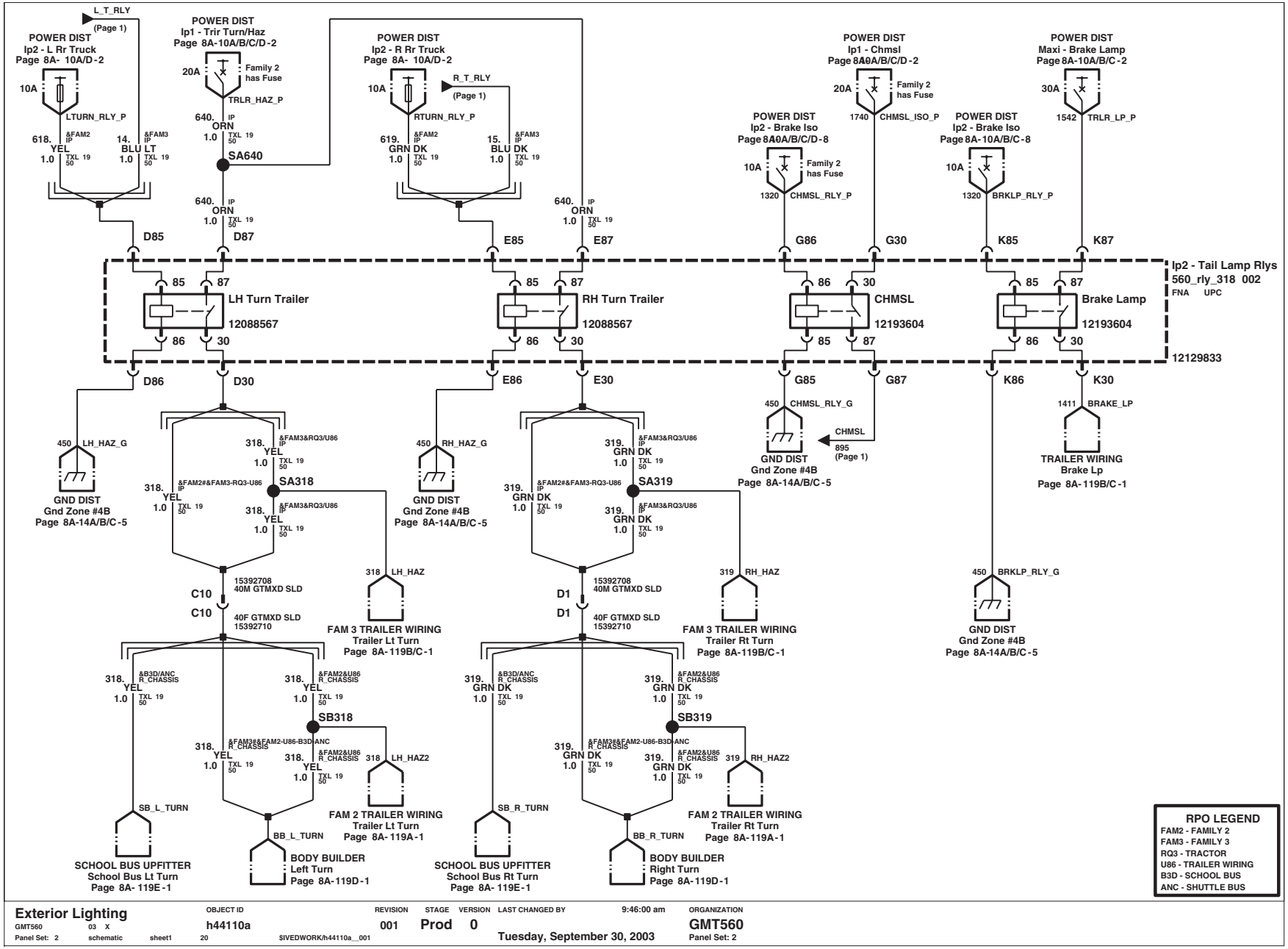


Daytime Running Lamps	OBJECT ID		REVISION	STAGE	VERSION	LAST CHANGED BY	6:36:06 am	ORGANIZATION	
GMT560	03 X -T62	h22102a	009	Pilot	B			GMT560	
Panel Set: 1	schematic	sheet1 1	$IVEDWORK/h22102a__009			Tuesday, August 13, 2002		Panel Set: 1	

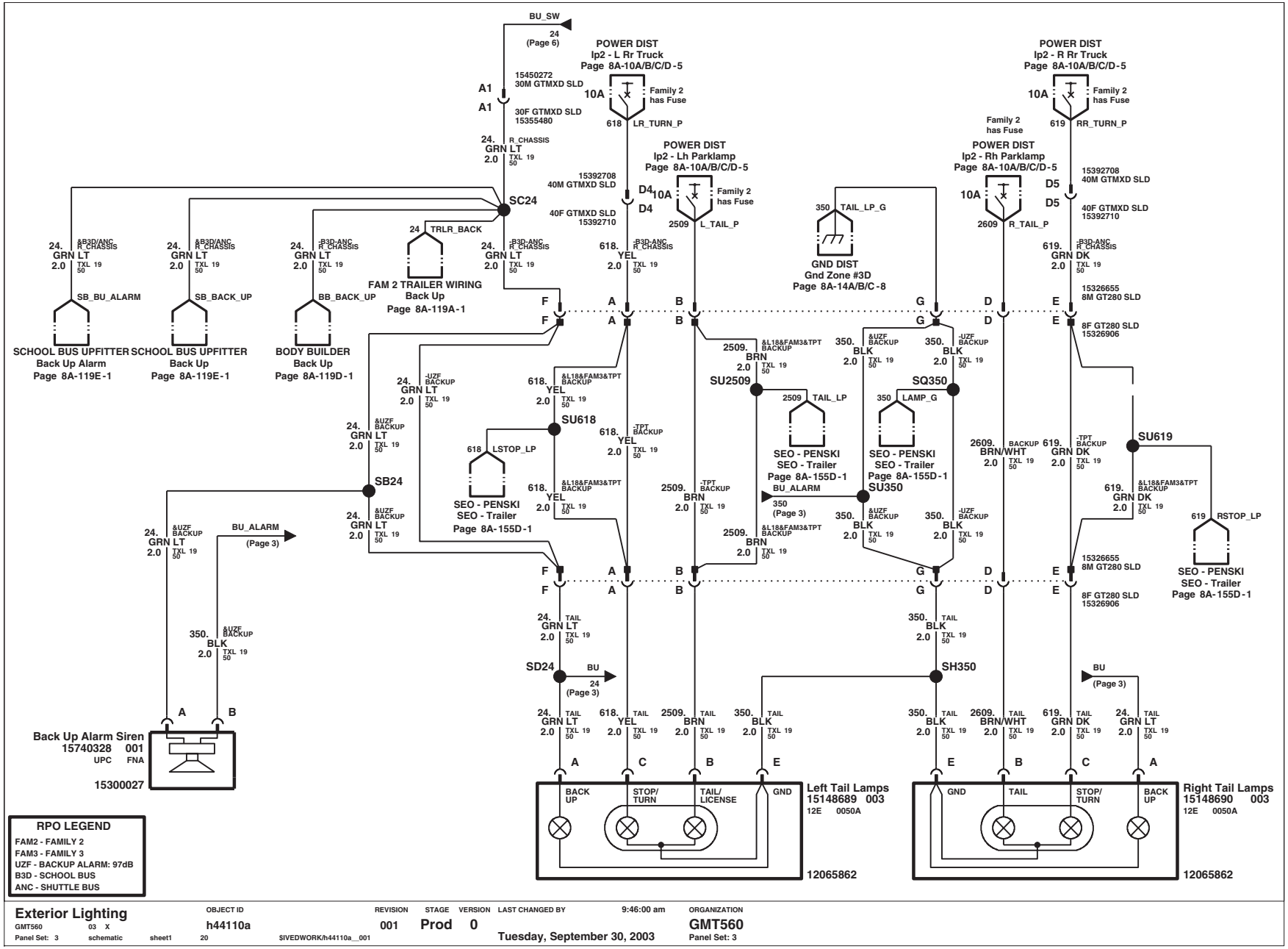
Exterior Lighting



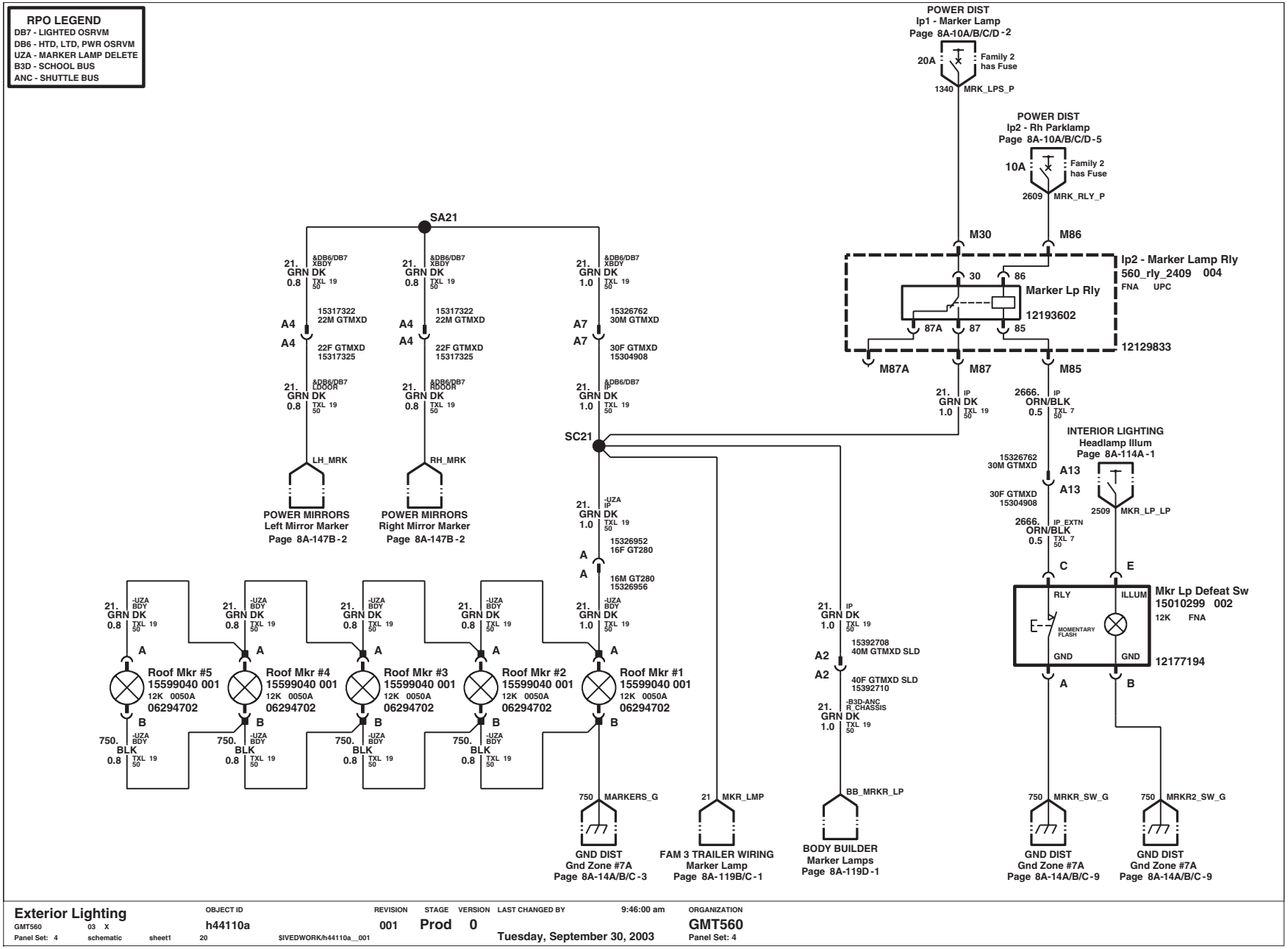
Exterior Lighting



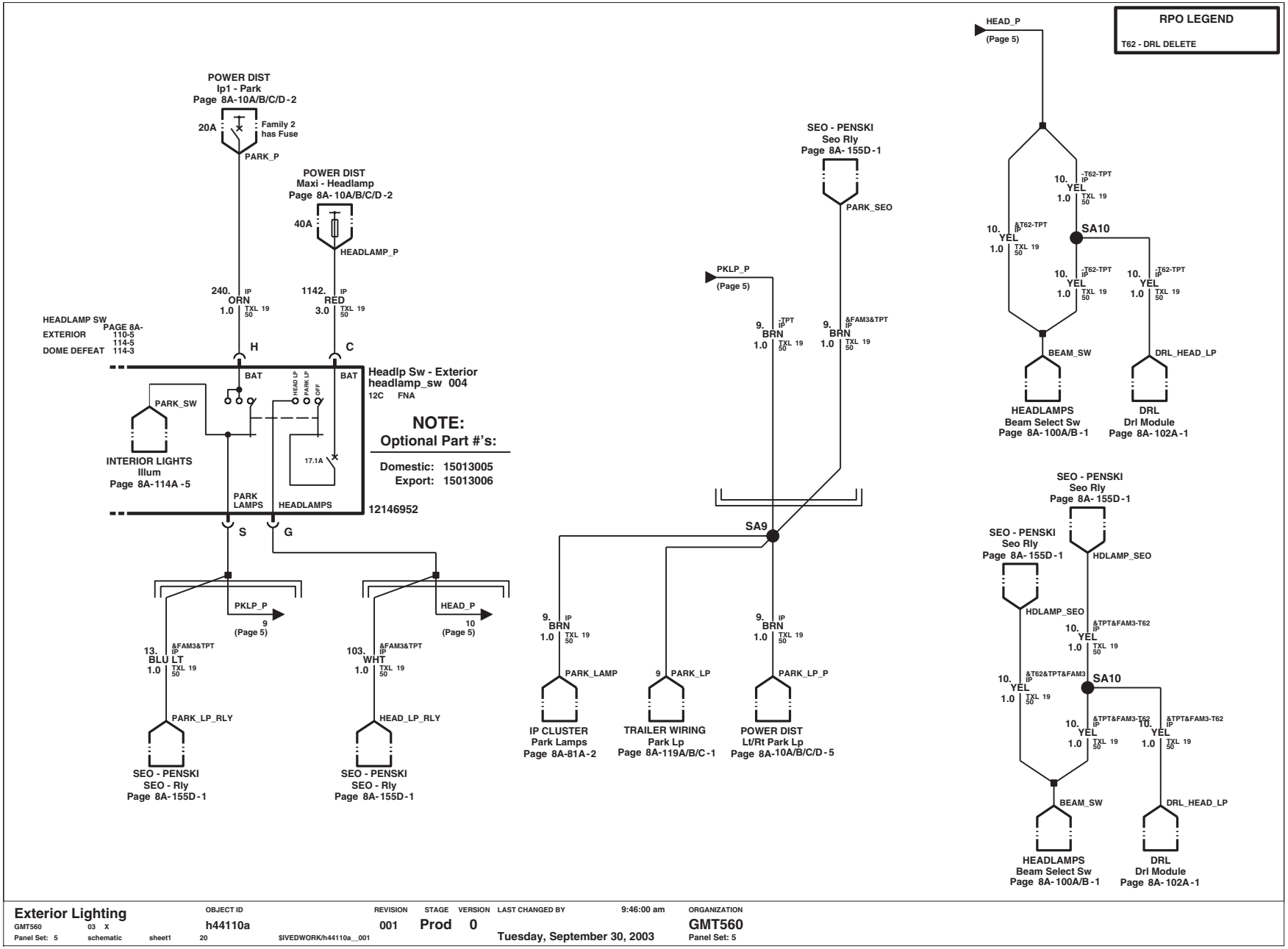
Exterior Lighting


BU_SW
24 (Page 6)
POWER DIST lp2 - L Rr Truck Page 8A-10A/B/C/D-5
15450272 30M GTMXD SLD
A1
10A
Family 2 has Fuse
618 LR_TURN_P
30F GTMXD SLD 15355480
24. R_CHASSIS GRN LT 2.0 TXL 19 50
POWER DIST lp2 - Lh Parklamp Page 8A-10A/B/C/D-5
15392708 40M GTMXD SLD
D4
2509 L_TAIL_P
40F GTMXD SLD 15392710
SC24
24 TRLR_BACK
FAM 2 TRAILER WIRING Back Up Page 8A-119A-1
24. &B3D/ANC R_CHASSIS GRN LT 2.0 TXL 19 50
SB_BU_ALARM
SCHOOL BUS UPFITTER Back Up Alarm Page 8A-119E-1
SB_BACK_UP
SCHOOL BUS UPFITTER Back Up Page 8A-119E-1
BB_BACK_UP
BODY BUILDER Back Up Page 8A-119D-1
24. -B3D-ANC R_CHASSIS GRN LT 2.0 TXL 19 50
618. -B3D-ANC R_CHASSIS YEL 2.0 TXL 19 50
GND DIST Gnd Zone #3D Page 8A-14A/B/C-8
350 TAIL_LP_G
POWER DIST lp2 - R Rr Truck Page 8A-10A/B/C/D-5
619 RR_TURN_P
POWER DIST lp2 - Rh Parklamp Page 8A-10A/B/C/D-5
D5
2609 R_TAIL_P
15392708 40M GTMXD SLD
40F GTMXD SLD 15392710
619. -B3D-ANC R_CHASSIS GRN DK 2.0 TXL 19 50
15326655 8M GT280 SLD
8F GT280 SLD 15326906
F A B G D E
24. -UZF BACKUP GRN LT 2.0 TXL 19 50
618. &L18&FAM3&TPT BACKUP YEL 2.0 TXL 19 50
2509. &L18&FAM3&TPT BACKUP BRN 2.0 TXL 19 50
350. &UZF BACKUP BLK 2.0 TXL 19 50
350. -UZF BACKUP BLK 2.0 TXL 19 50
SU2509
SQ350
2509 TAIL_LP
350 LAMP_G
SEO - PENSKI SEO - Trailer Page 8A-155D-1
SU618
618. -TPT BACKUP YEL 2.0 TXL 19 50
618 LSTOP_LP
SEO - PENSKI SEO - Trailer Page 8A-155D-1
2509. -TPT BACKUP BRN 2.0 TXL 19 50
BU_ALARM
350 (Page 3)
SU350
2609. BACKUP BRN/WHT 2.0 TXL 19 50
619. -TPT BACKUP GRN DK 2.0 TXL 19 50
SU619
619. &L18&FAM3&TPT BACKUP GRN DK 2.0 TXL 19 50
619 RSTOP_LP
SEO - PENSKI SEO - Trailer Page 8A-155D-1
SB24
24. &UZF BACKUP GRN LT 2.0 TXL 19 50
BU_ALARM (Page 3)
350. &UZF BACKUP BLK 2.0 TXL 19 50
Back Up Alarm Siren
15740328 001
UPC FNA
15300027
SD24
BU
24 (Page 3)
SH350
24. TAIL GRN LT 2.0 TXL 19 50
618. TAIL YEL 2.0 TXL 19 50
2509. TAIL BRN 2.0 TXL 19 50
350. TAIL BLK 2.0 TXL 19 50
2609. TAIL BRN/WHT 2.0 TXL 19 50
619. TAIL GRN DK 2.0 TXL 19 50
A C B E
BACK UP
STOP/ TURN
TAIL/ LICENSE
GND
Left Tail Lamps
15148689 003
12E 0050A
12065862
TAIL
Right Tail Lamps
15148690 003
RPO LEGEND
FAM2 - FAMILY 2
FAM3 - FAMILY 3
UZF - BACKUP ALARM: 97dB
B3D - SCHOOL BUS
ANC - SHUTTLE BUS
Exterior Lighting
GMT560 03 X
Panel Set: 3 schematic sheet1 20
OBJECT ID h44110a
$IVEDWORK/h44110a__001
REVISION 001
STAGE Prod
VERSION 0
LAST CHANGED BY
9:46:00 am
Tuesday, September 30, 2003
ORGANIZATION GMT560
Panel Set: 3

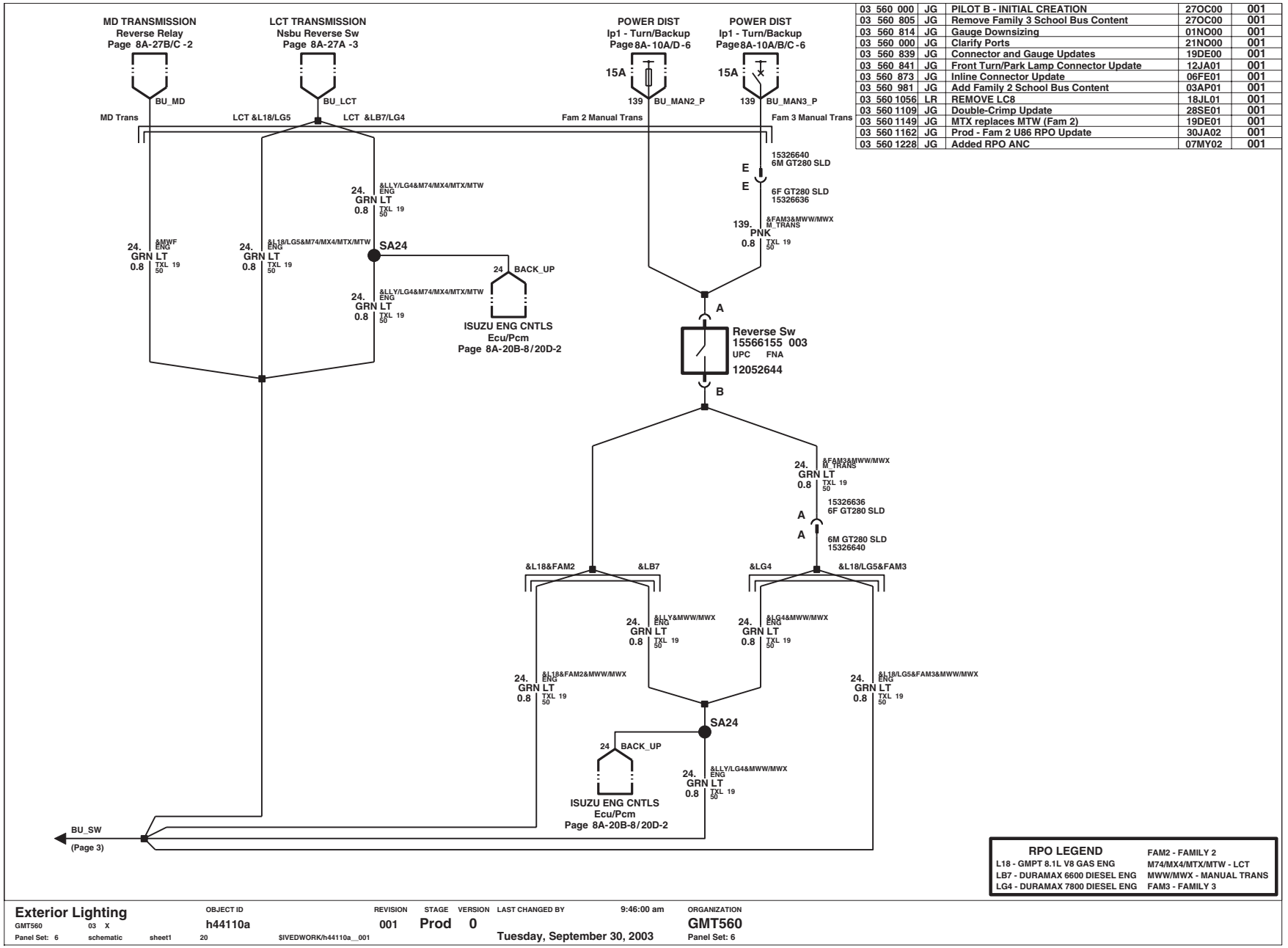
Exterior Lighting



Exterior Lighting



Exterior Lighting

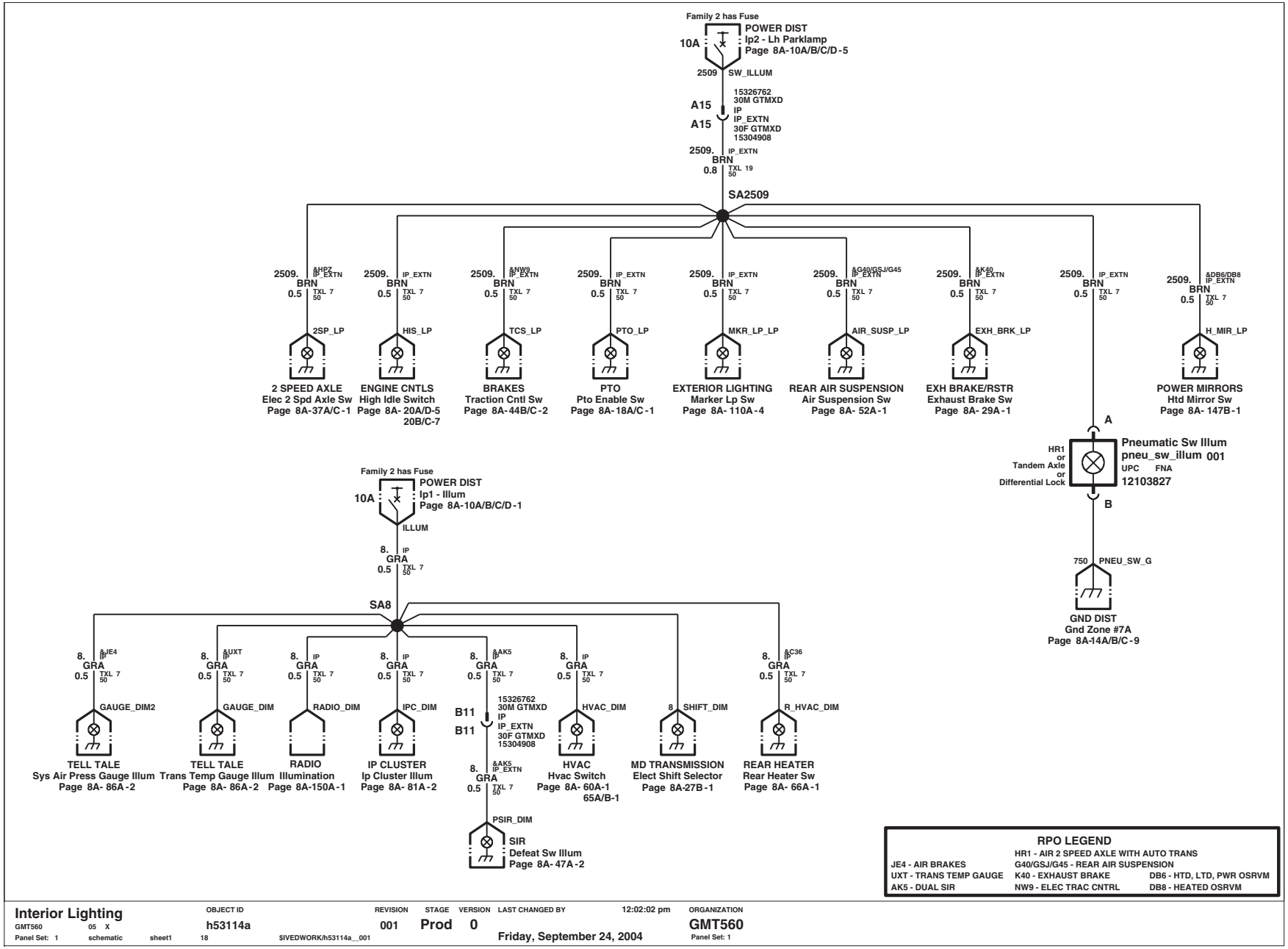


03 560 000	JG	PILOT B - INITIAL CREATION	27OC00	001
03 560 805	JG	Remove Family 3 School Bus Content	27OC00	001
03 560 814	JG	Gauge Downsizing	01NO00	001
03 560 000	JG	Clarify Ports	21NO00	001
03 560 839	JG	Connector and Gauge Updates	19DE00	001
03 560 841	JG	Front Turn/Park Lamp Connector Update	12JA01	001
03 560 873	JG	Inline Connector Update	06FE01	001
03 560 981	JG	Add Family 2 School Bus Content	03AP01	001
03 560 1056	LR	REMOVE LC8	18JL01	001
03 560 1109	JG	Double-Crimp Update	28SE01	001
03 560 1149	JG	MTX replaces MTW (Fam 2)	19DE01	001
03 560 1162	JG	Prod - Fam 2 U86 RPO Update	30JA02	001
03 560 1228	JG	Added RPO ANC	07MY02	001

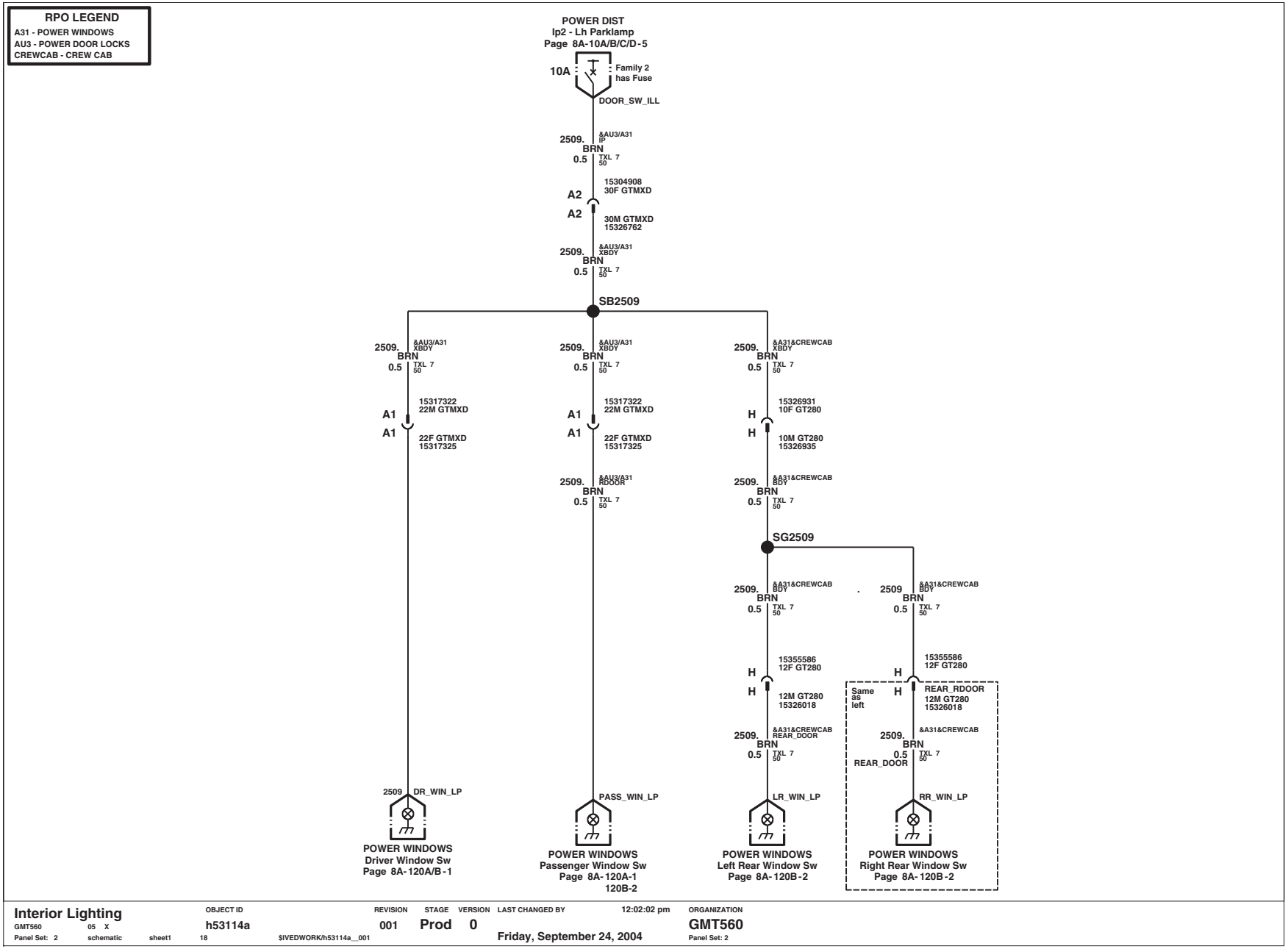
Exterior Lighting
GMT560 03 X
Panel Set: 6 schematic sheet1 20

OBJECT ID: h44110a
REVISION: 001
STAGE: Prod
VERSION: 0
LAST CHANGED BY: $IVEDWORK/h44110a__001
9:46:00 am
Tuesday, September 30, 2003
ORGANIZATION: GMT560
Panel Set: 6

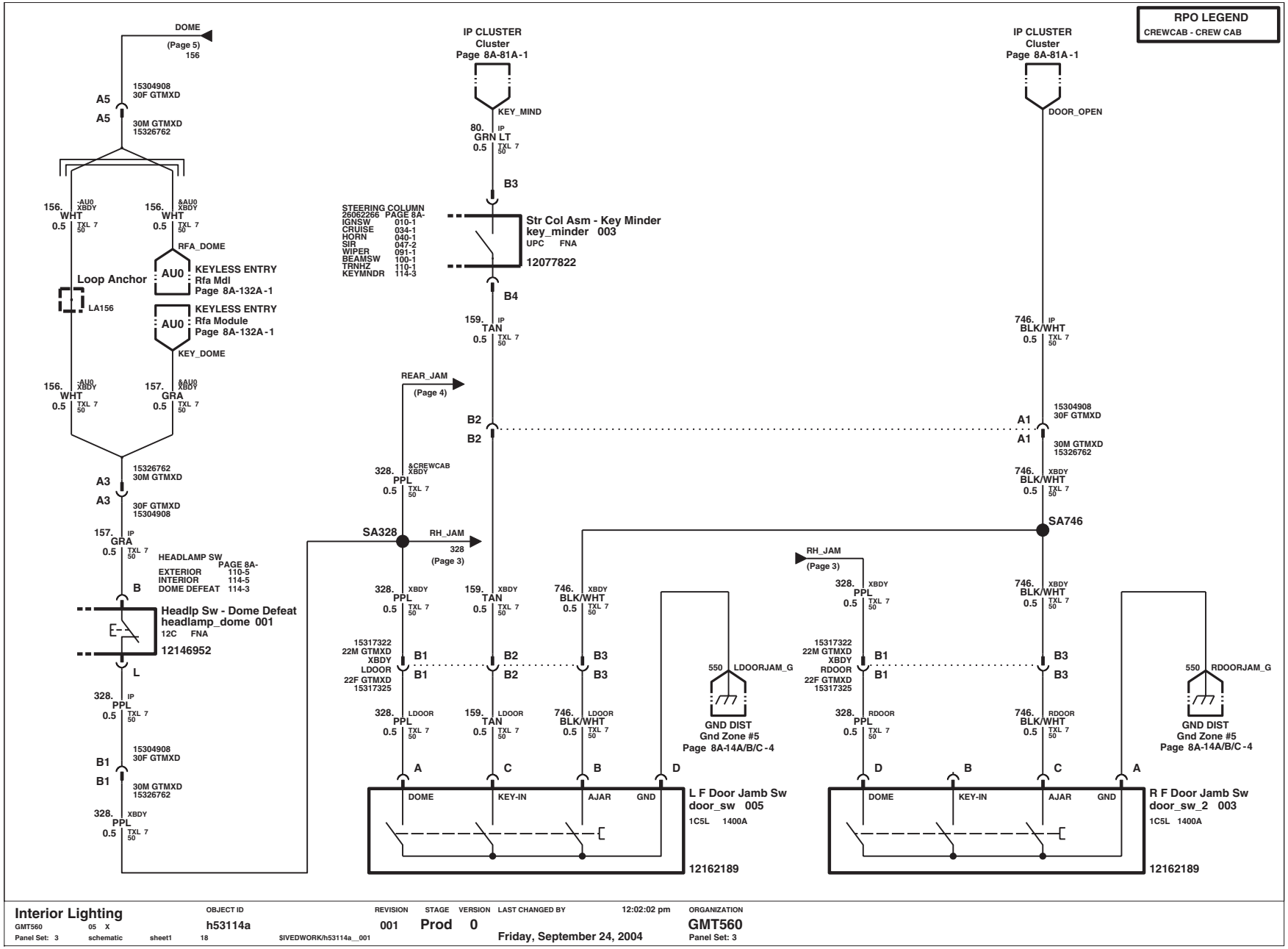
Interior Lighting



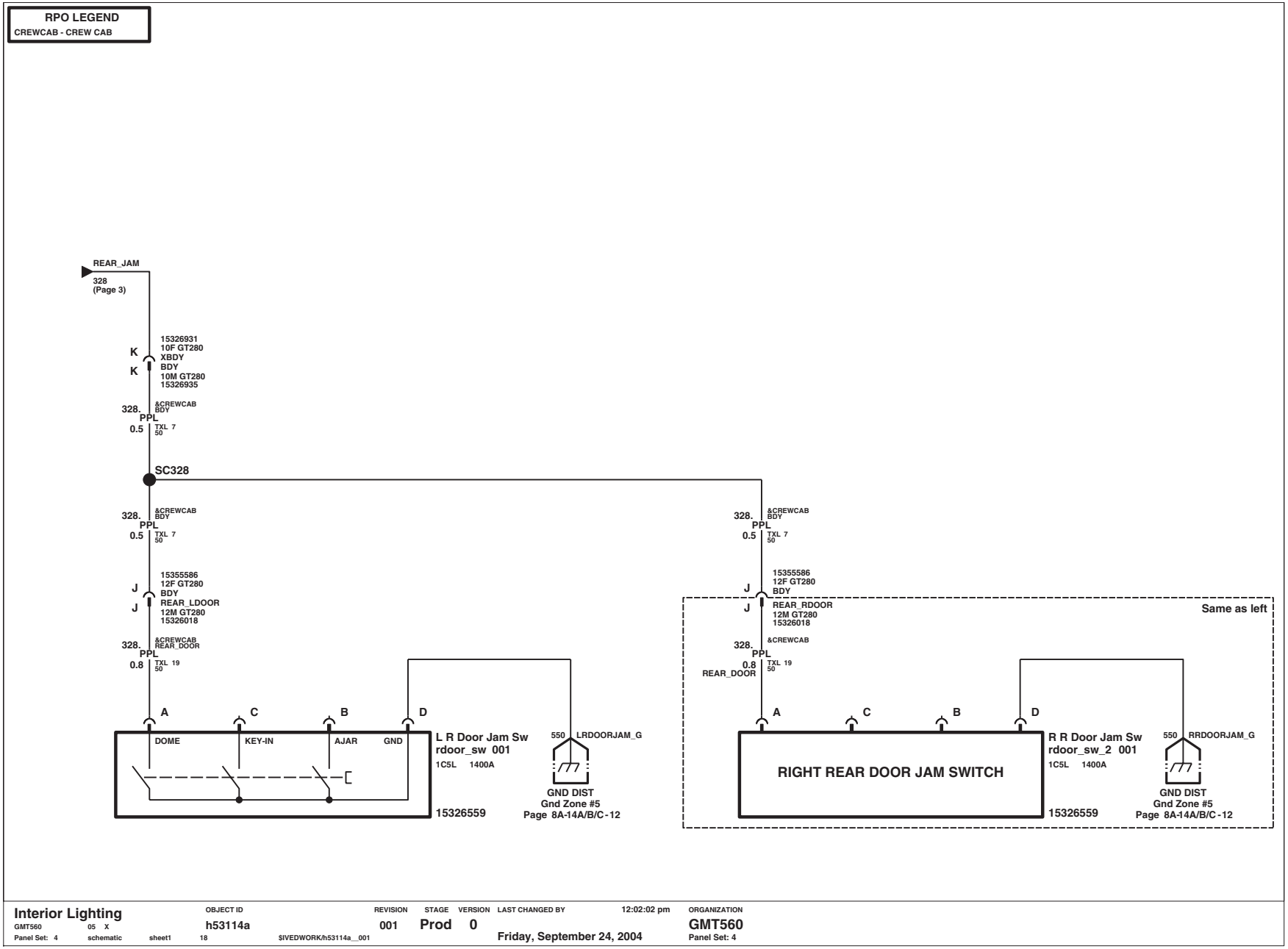
Interior Lighting



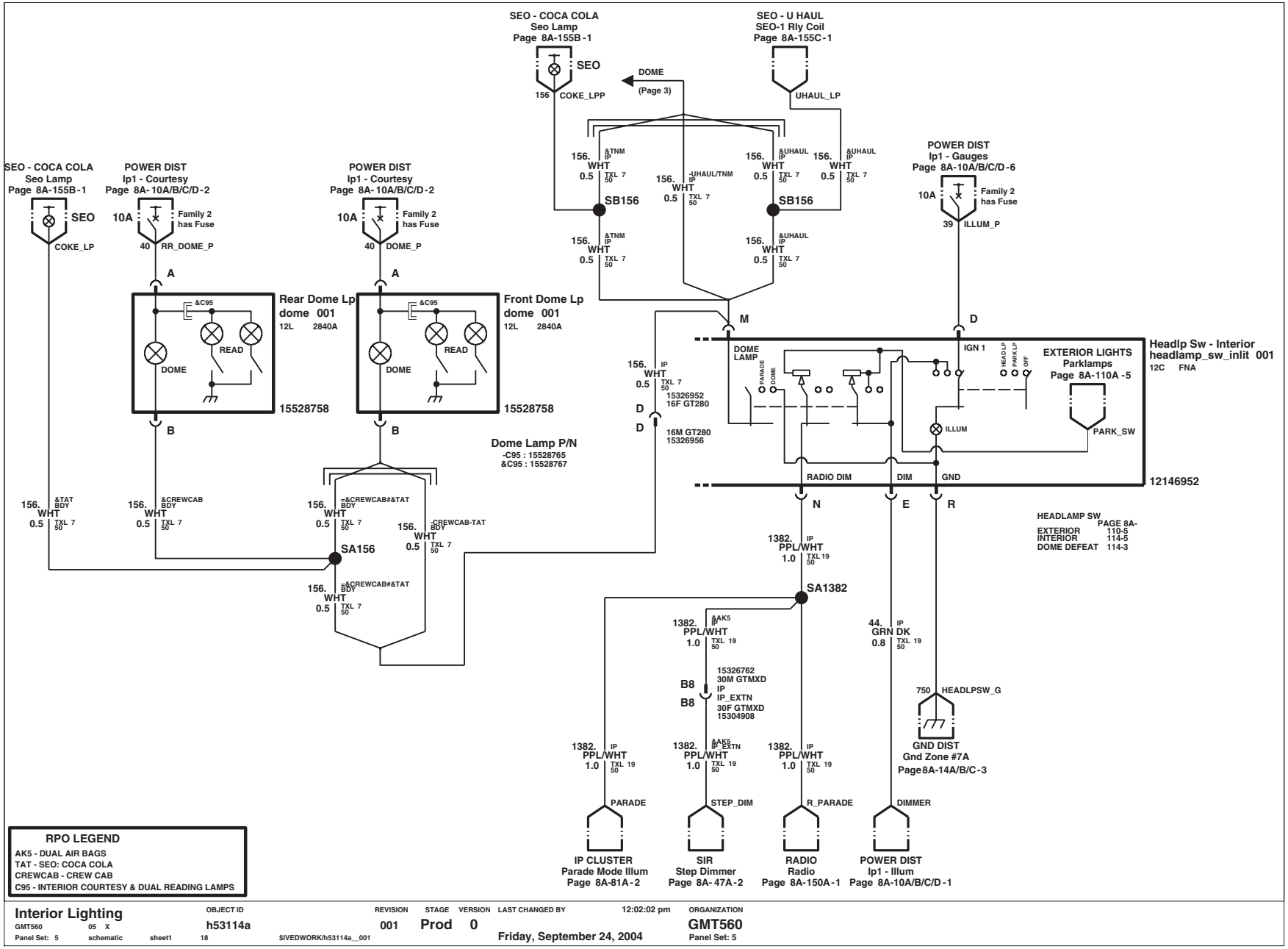
Interior Lighting



Interior Lighting

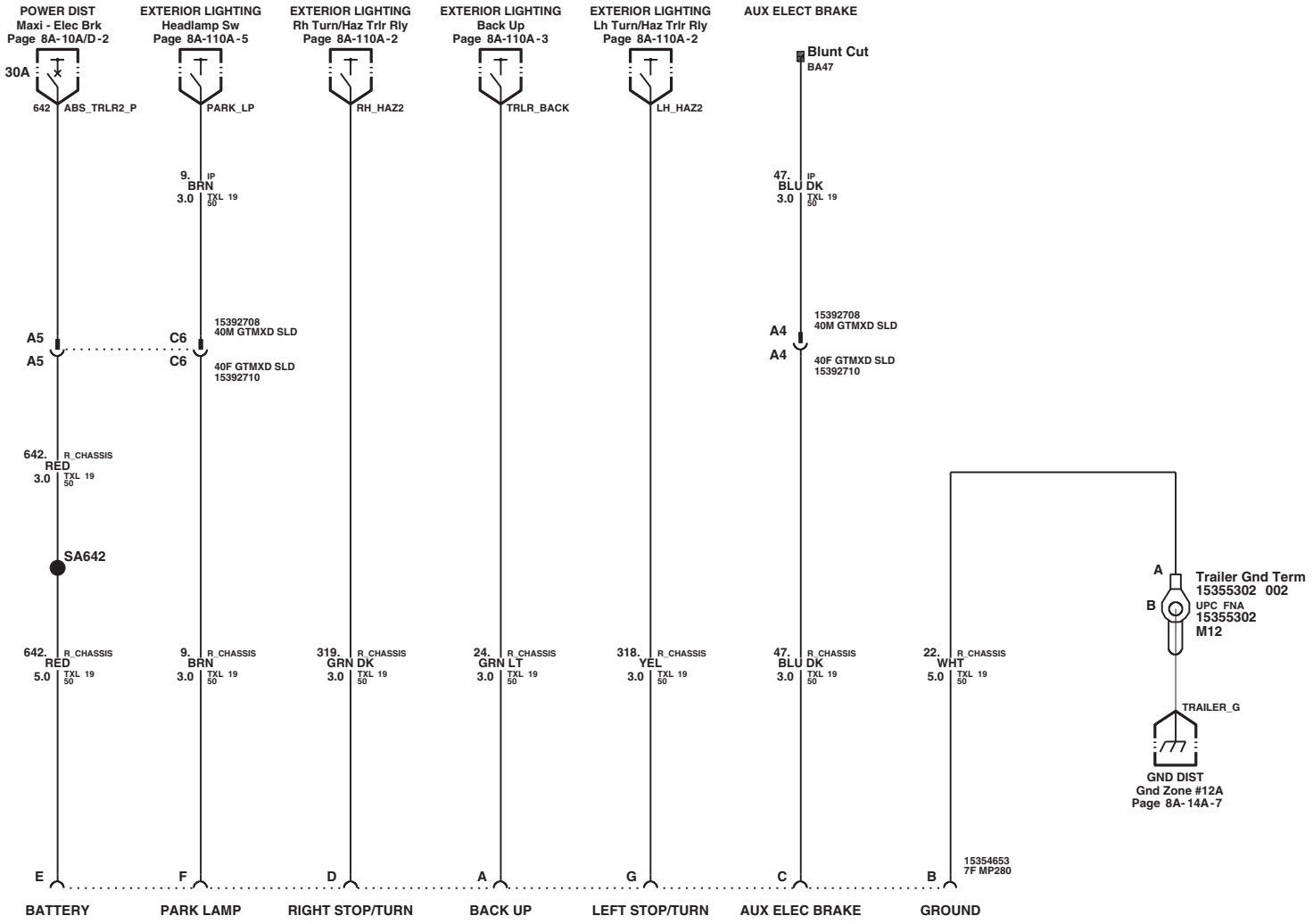


Interior Lighting



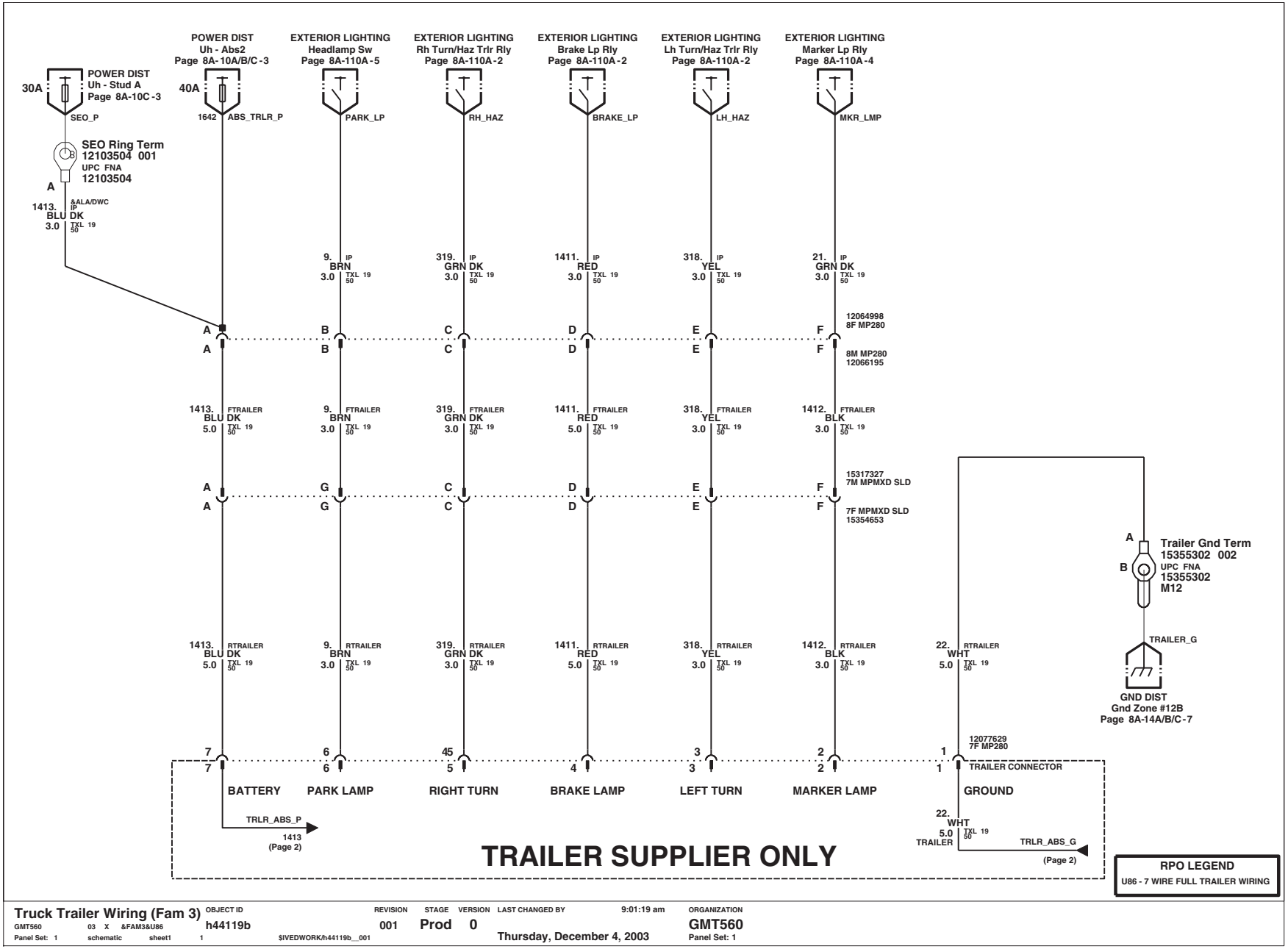
Trailer Wiring Family 2 — Truck Trailer Wiring

03 560 000	JG	PILOT B - INITIAL CREATION	03AP01	001
03 560 981	JG	Add Family 2 School Bus Content	03AP01	001
03 560 1162	JG	Prod - Add RPO U86 (Make Trailer Option)	30JA02	001



Truck Trailer Wiring (Fam 2)	OBJECT ID		REVISION	STAGE	VERSION	LAST CHANGED BY	6:42:31 am	ORGANIZATION	
GMT560	03 X &FAM2&U86	h22119a	009	Prod	0			GMT560	
Panel Set: 1	schematic	sheet1 22	$IVEDWORK/h22119a__009			Tuesday, August 13, 2002		Panel Set: 1	

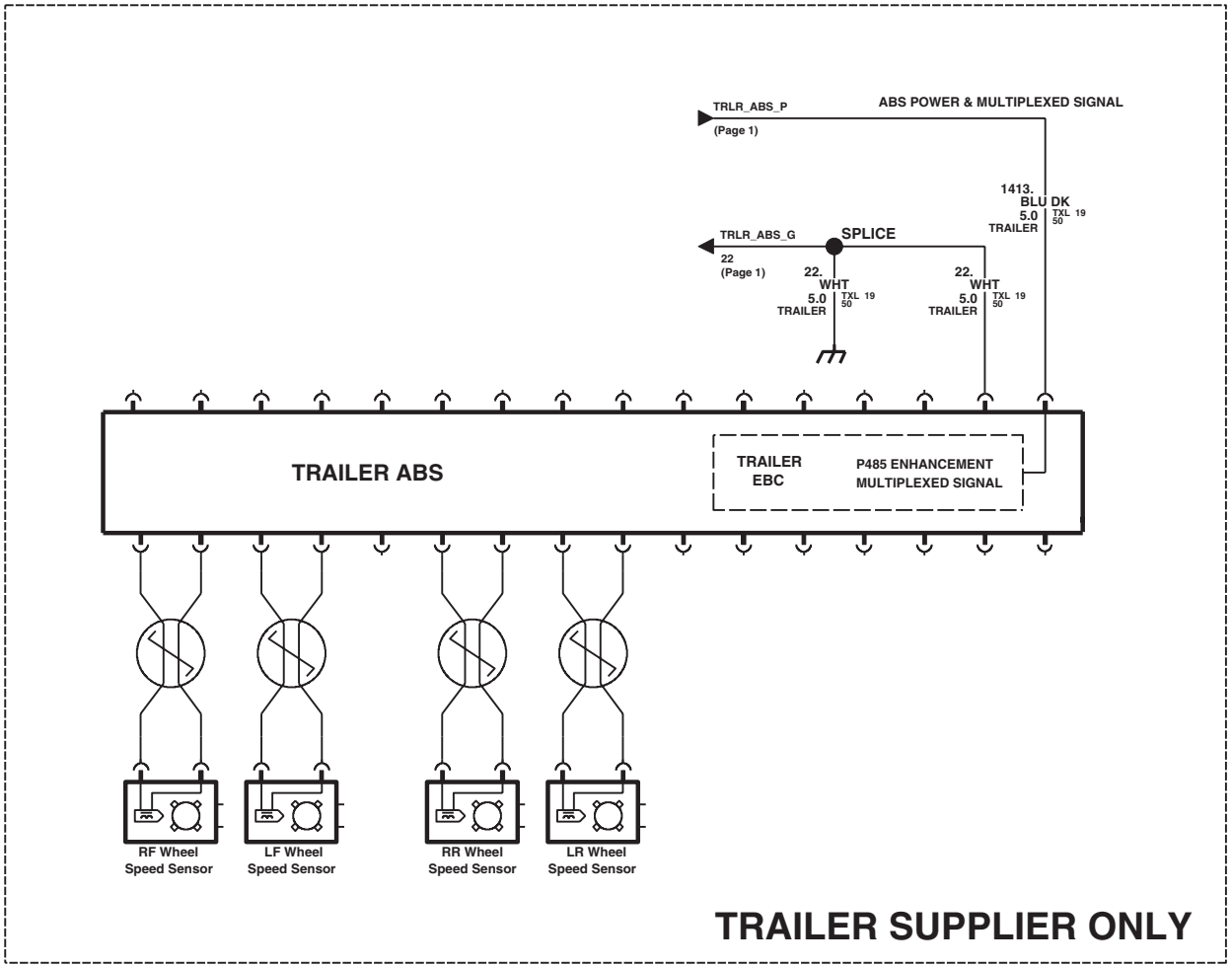
Trailer Wiring Family 3 — Truck Trailer Wiring



Truck Trailer Wiring (Fam 3) OBJECT ID h44119b REVISION 001 STAGE Prod VERSION 0 LAST CHANGED BY 9:01:19 am Thursday, December 4, 2003 ORGANIZATION GMT560

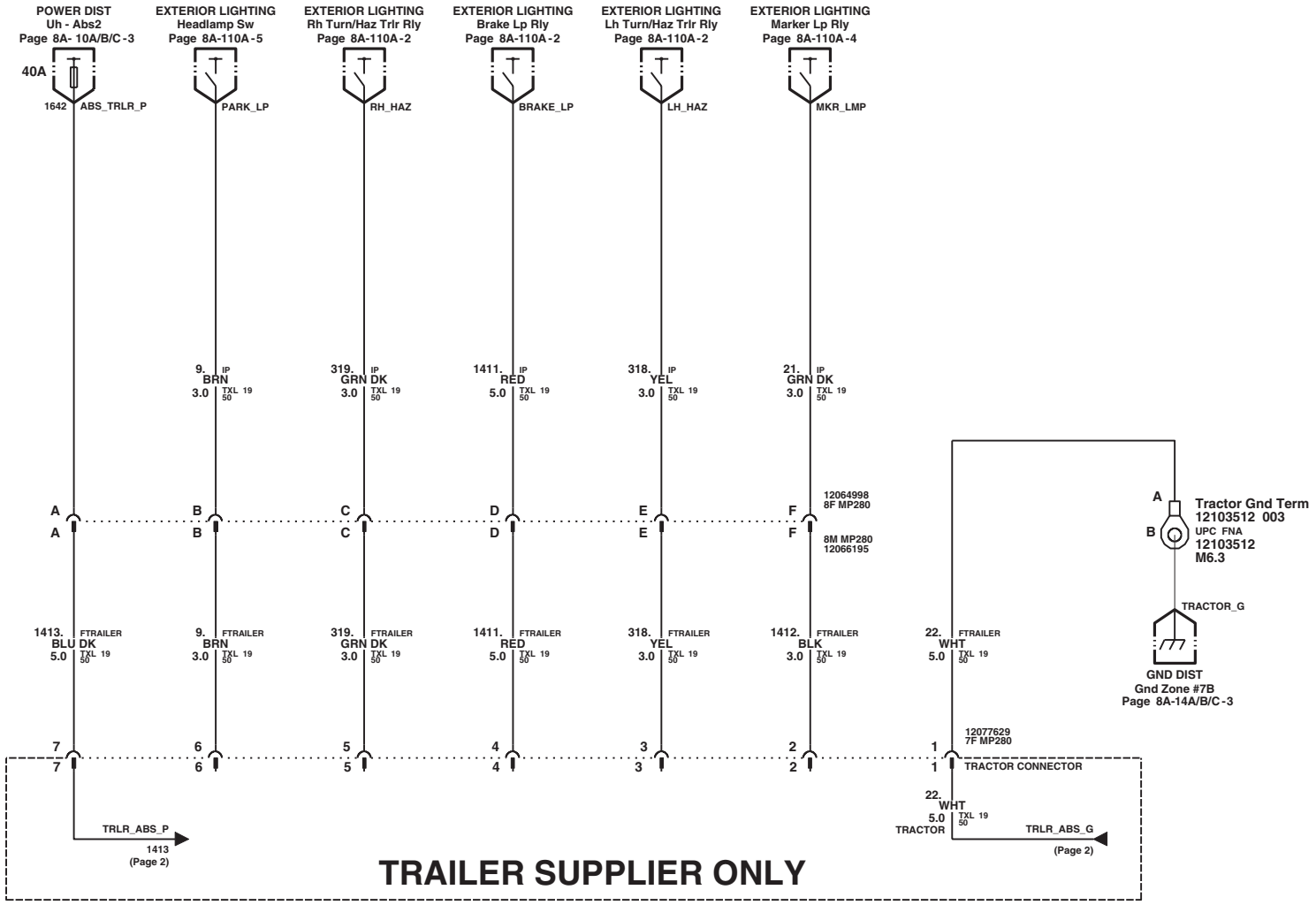
GMT560 03 X &FAM3&U86 Panel Set: 1 schematic sheet1 1 $IVEDWORK/h44119b__001 Panel Set: 1

Trailer Wiring Family 3 — Truck Trailer Wiring



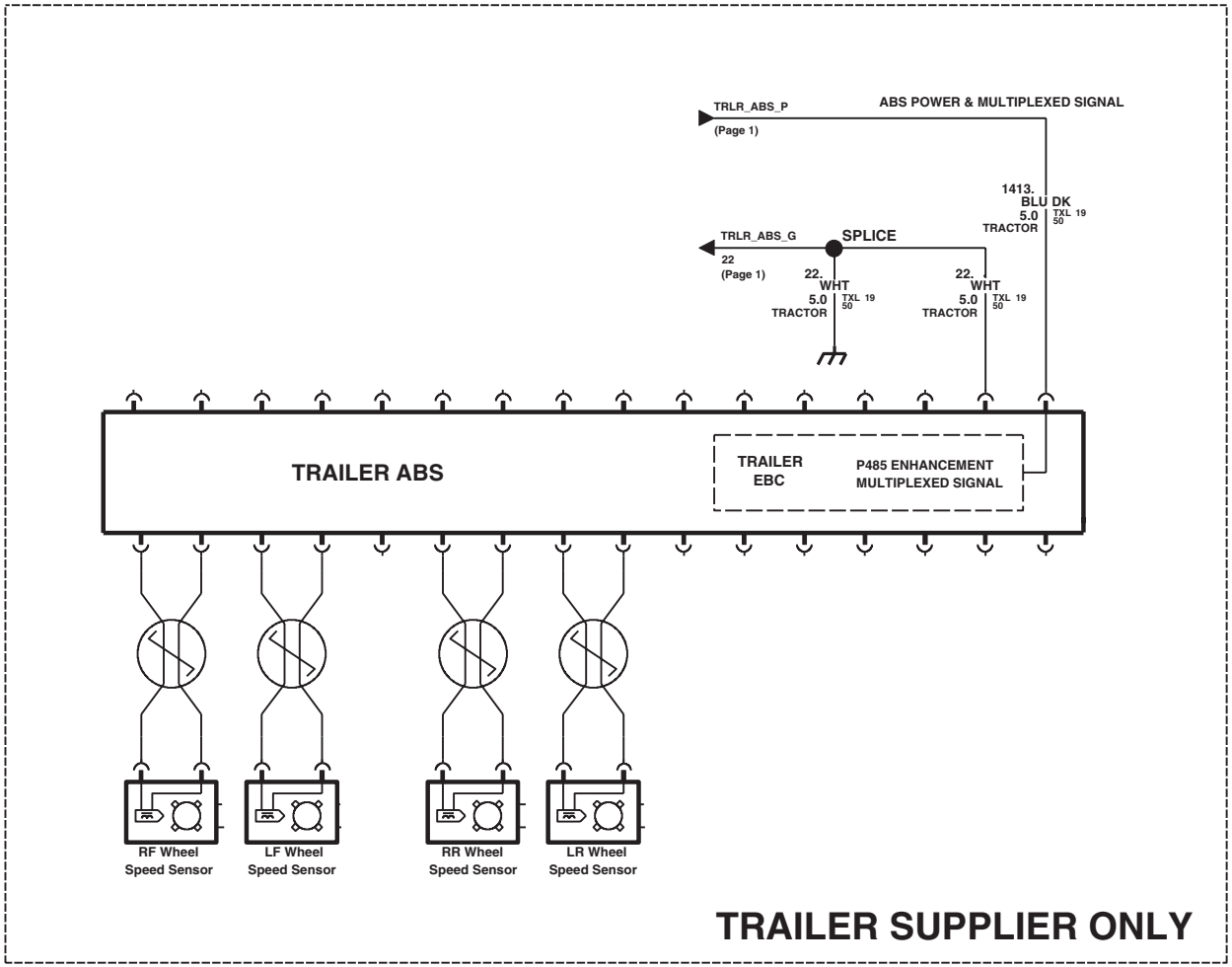
Truck Trailer Wiring (Fam 3) OBJECT ID h44119b REVISION 001 STAGE Prod VERSION 0 LAST CHANGED BY 9:01:19 am ORGANIZATION GMT560
GMT560 03 X &FAM3&U86 Thursday, December 4, 2003 Panel Set: 2
Panel Set: 2 schematic sheet1 1 $IVEDWORK/h44119b__001

Trailer Wiring Family 3 — Tractor Wiring



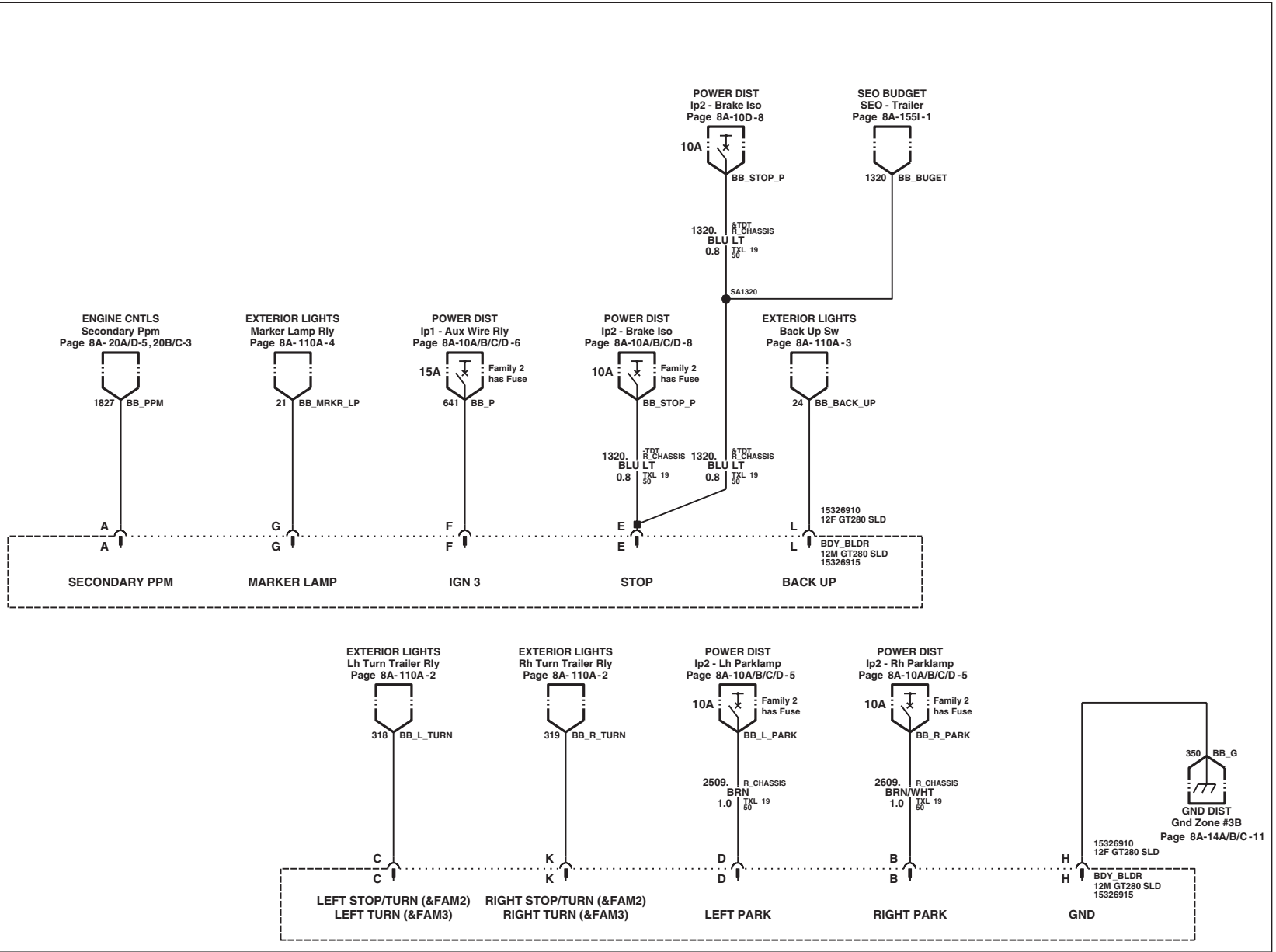
Trailer Wiring Family 3 — Tractor Wiring

03_560_000	JG	PILOT - INITIAL CREATION	09FE00	001



Tractor Wrg (Fam 3)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY	6:45:08 am	ORGANIZATION
GMT560 03 X &RQ3	h22119c	009	Pilot	B			GMT560
Panel Set: 2 schematic sheet1 1	$IVEDWORK/h22119c__009				Tuesday, August 13, 2002		Panel Set: 2

Body Builder Connector

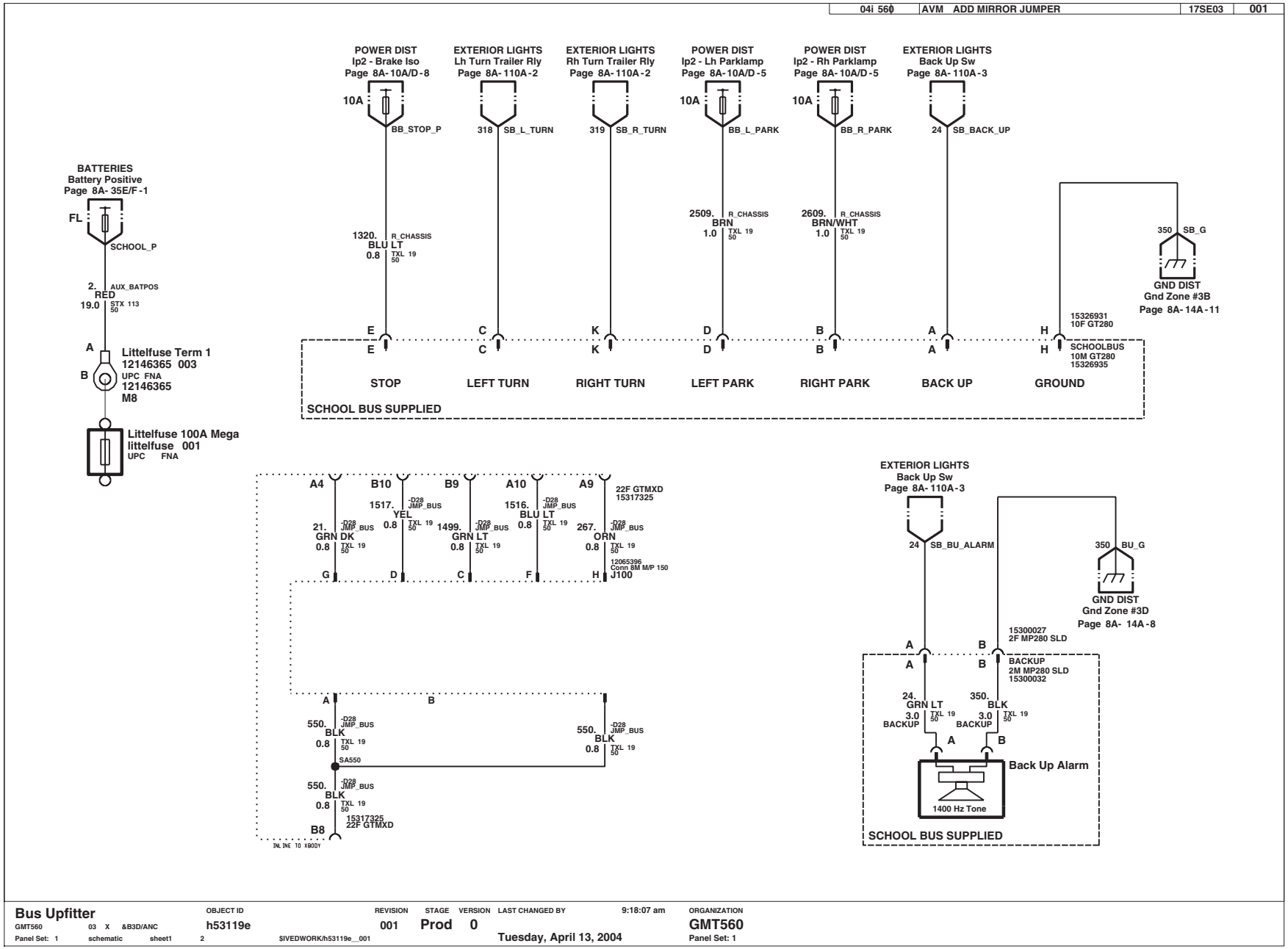


Body Builder Connector

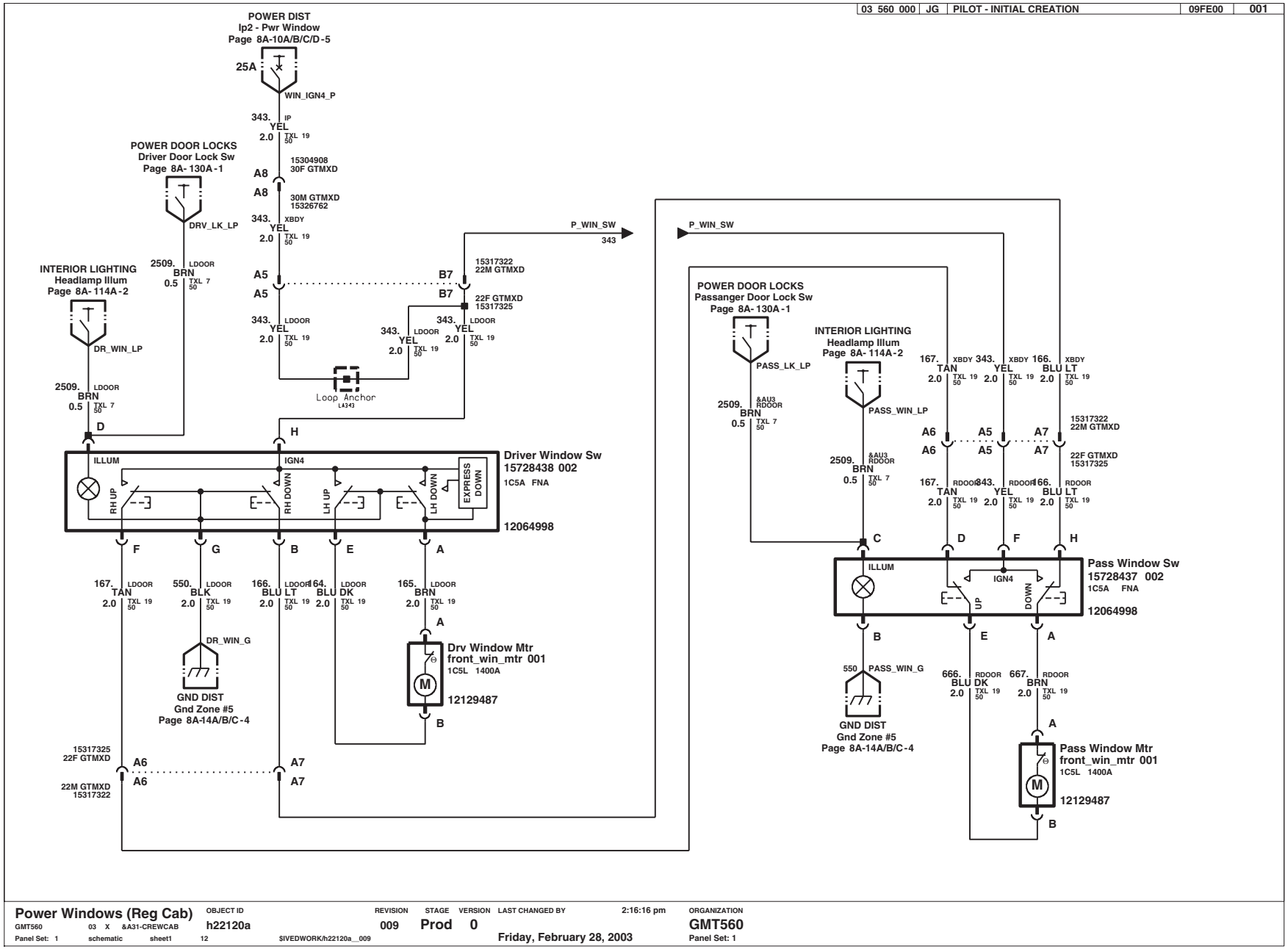
OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY		ORGANIZATION
h44119d	001	Prod	0	Wednesday, November 5, 2003	12:52:07 pm	GMT560

GMT560 03 X -B3D-ANC
Panel Set: 1 schematic sheet1 2 $IVEDWORK/h44119d__001
Panel Set: 1

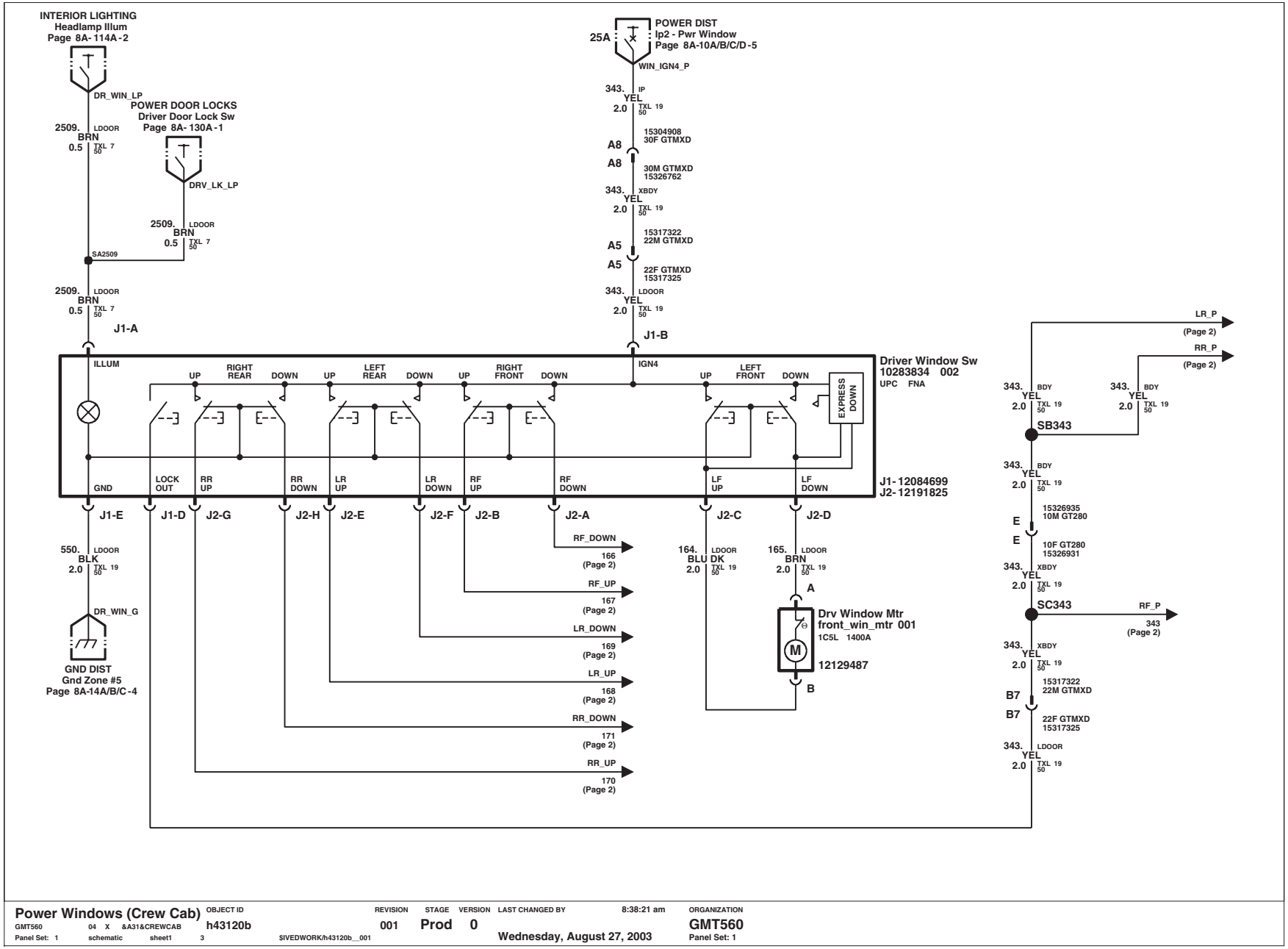
School Bus Upfitter



Power Windows — Regular Cab

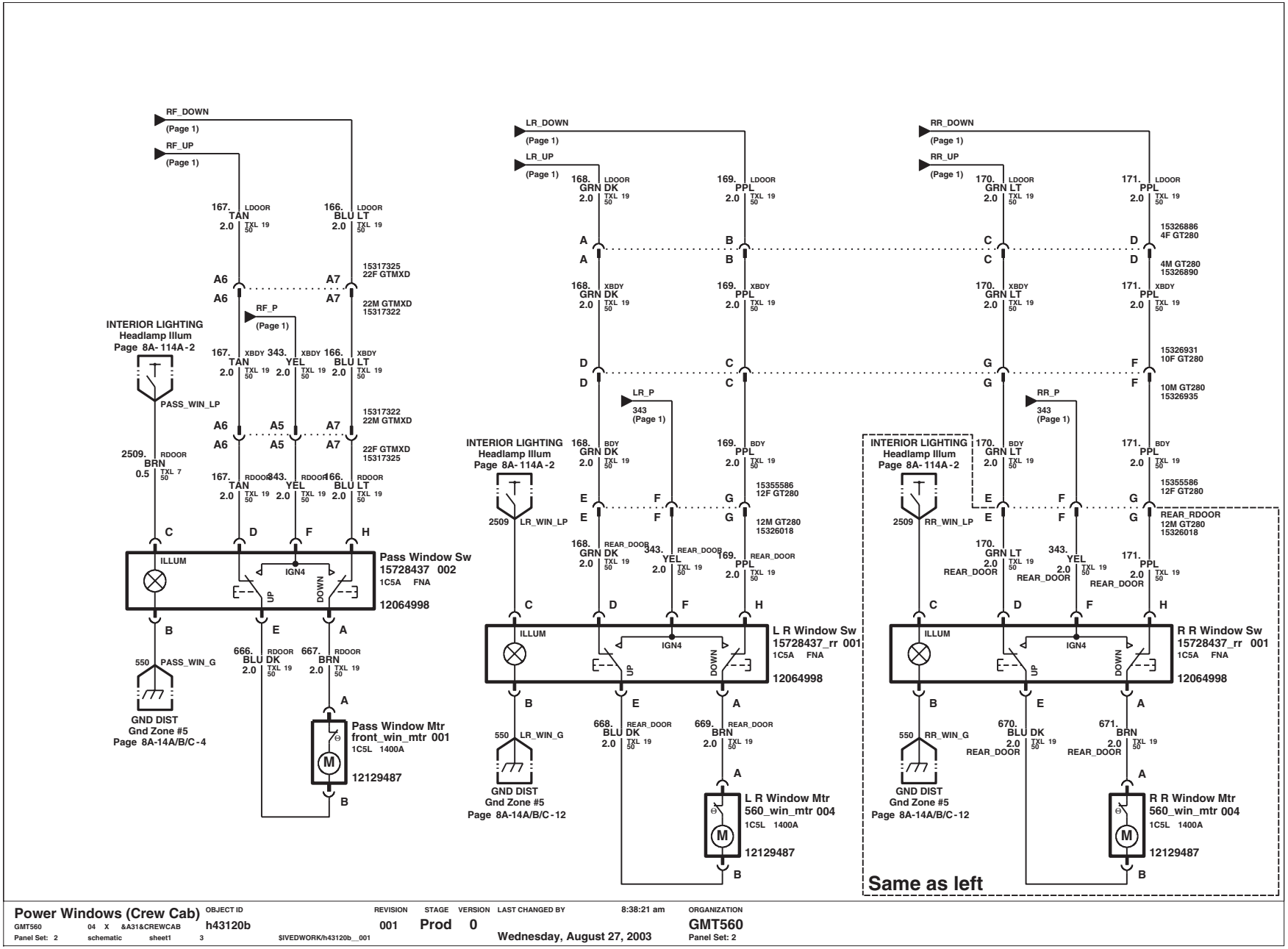


Power Windows — Crew Cab



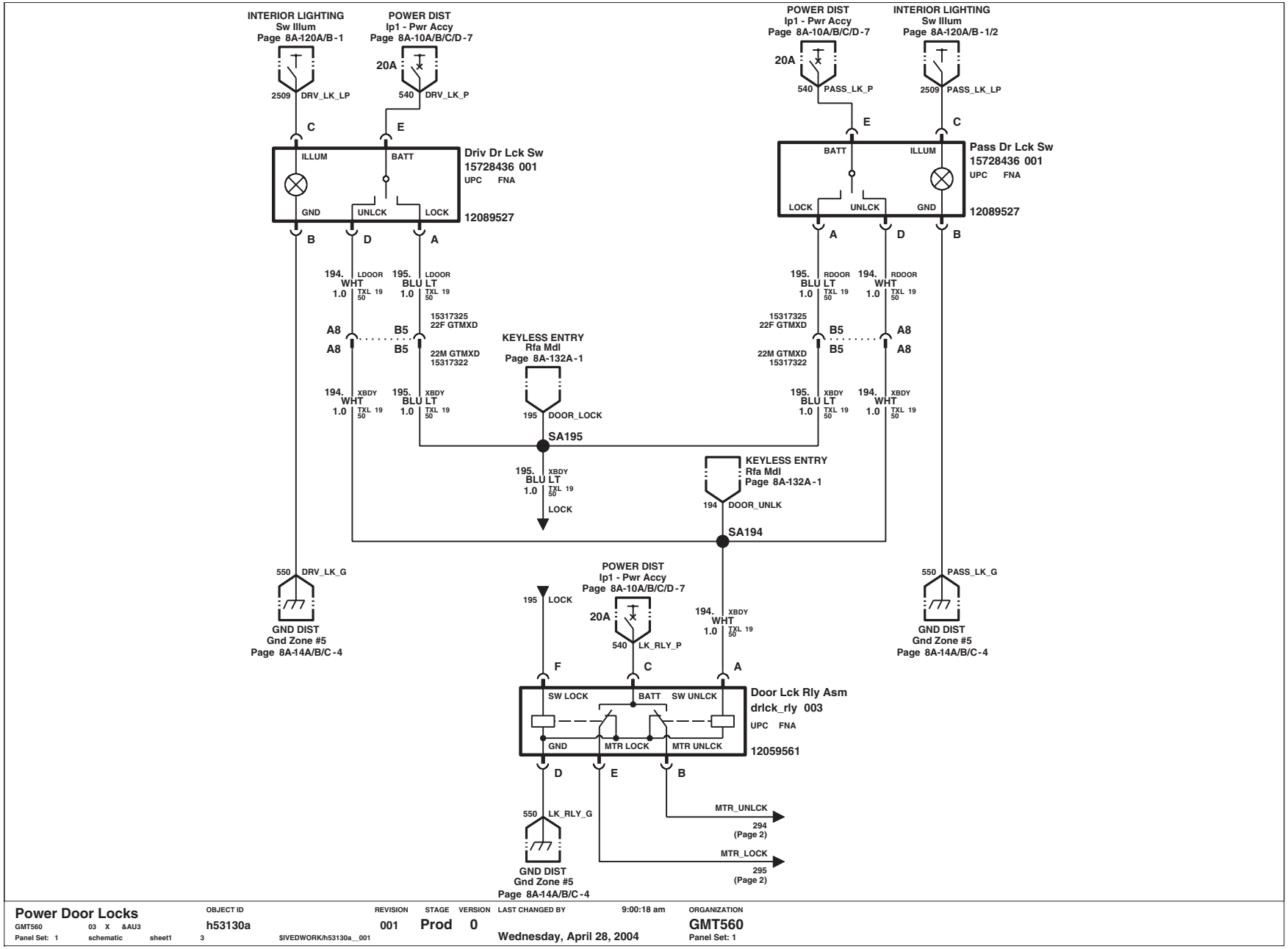
Power Windows (Crew Cab)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY		ORGANIZATION
GMT560 04 X &A31&CREWCAB	h43120b	001	Prod	0		8:38:21 am	GMT560
Panel Set: 1 schematic sheet1 3	$IVEDWORK/h43120b__001				Wednesday, August 27, 2003		Panel Set: 1

Power Windows — Crew Cab



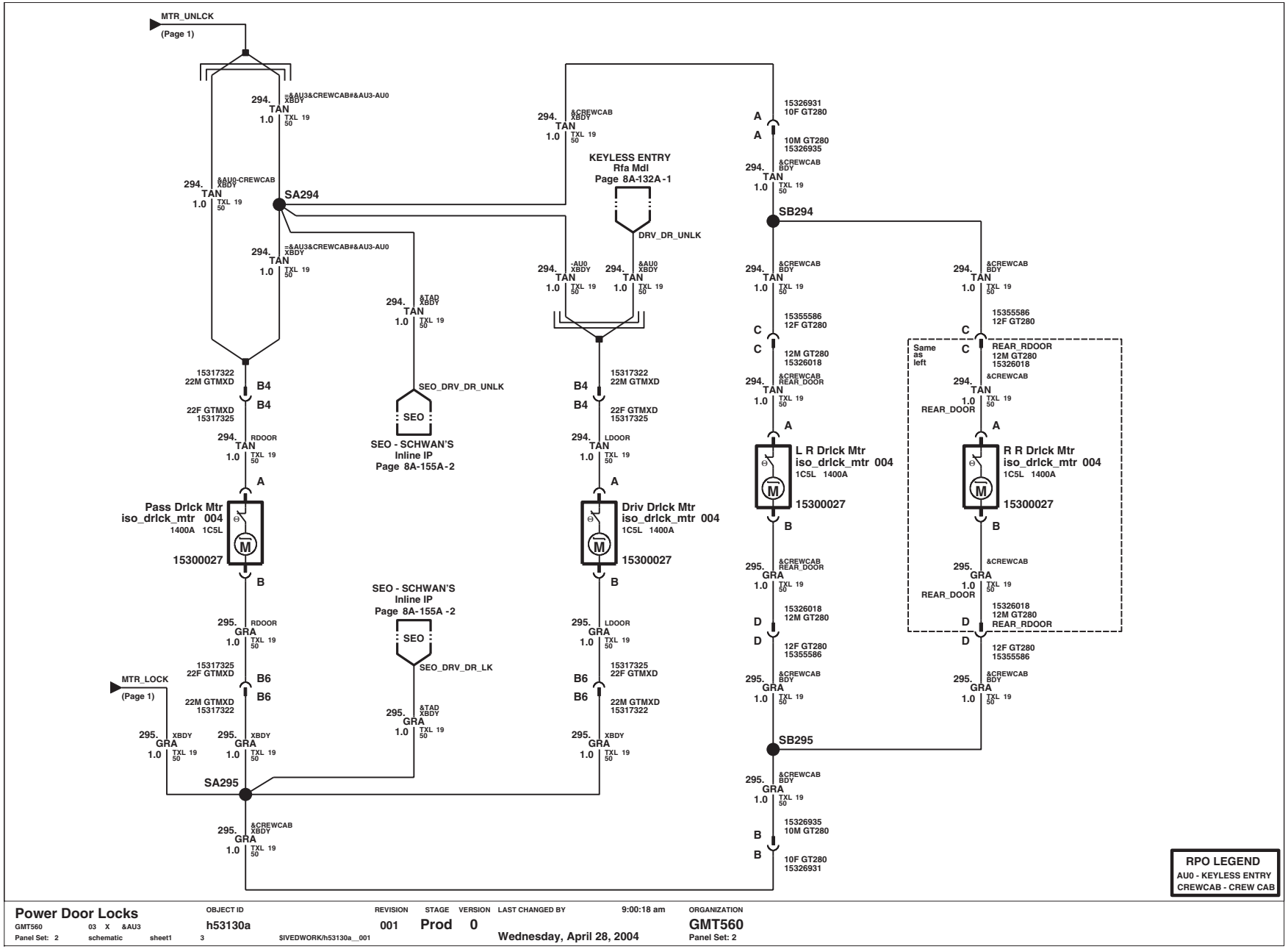
Power Windows (Crew Cab)	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY		ORGANIZATION
GMT560 04 X &A31&CREWCAB	h43120b	001	Prod	0		8:38:21 am	GMT560
Panel Set: 2 schematic sheet1 3	$IVEDWORK/h43120b__001				Wednesday, August 27, 2003		Panel Set: 2

Power Door Locks



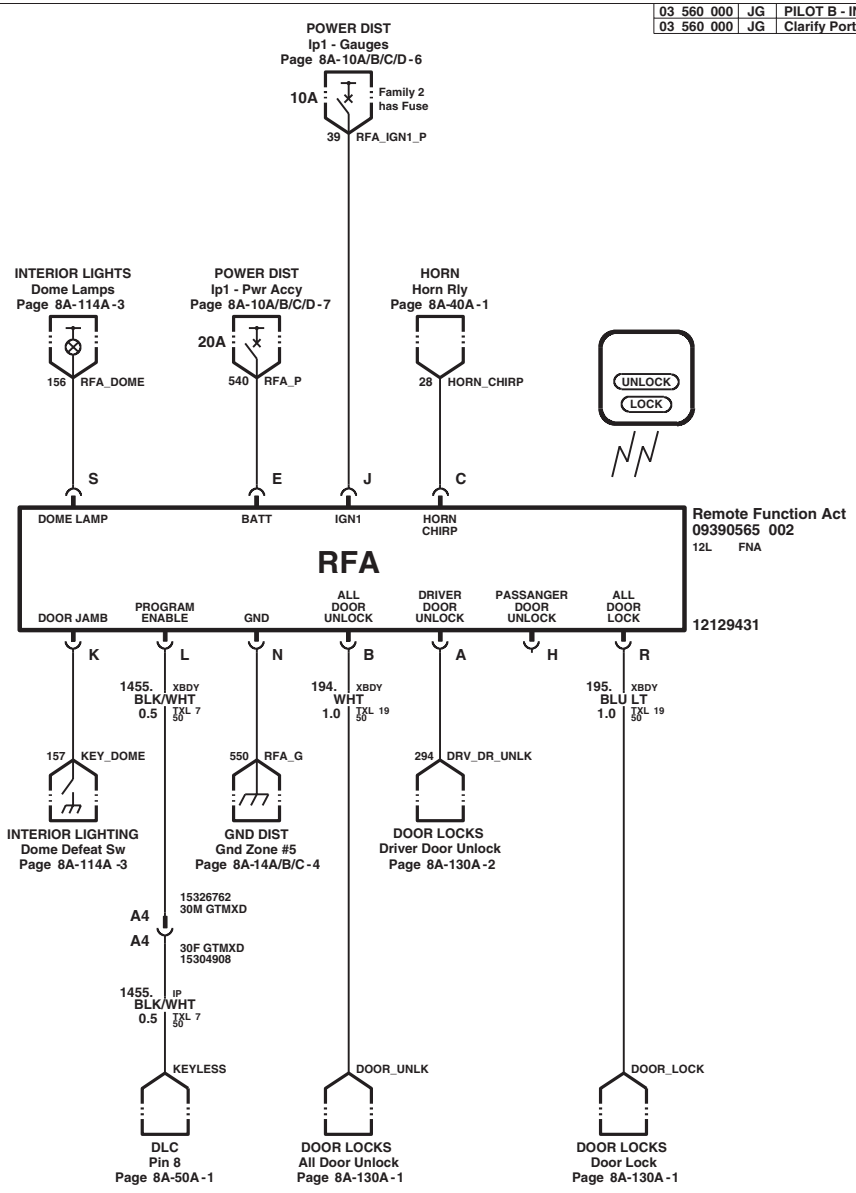
Power Door Locks	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY		ORGANIZATION
GMT560 03 X &AU3	h53130a	001	Prod	0	9:00:18 am		GMT560
Panel Set: 1 schematic sheet1 3	$IVEDWORK/h53130a__001				Wednesday, April 28, 2004		Panel Set: 1

Power Door Locks



Remote Keyless Entry

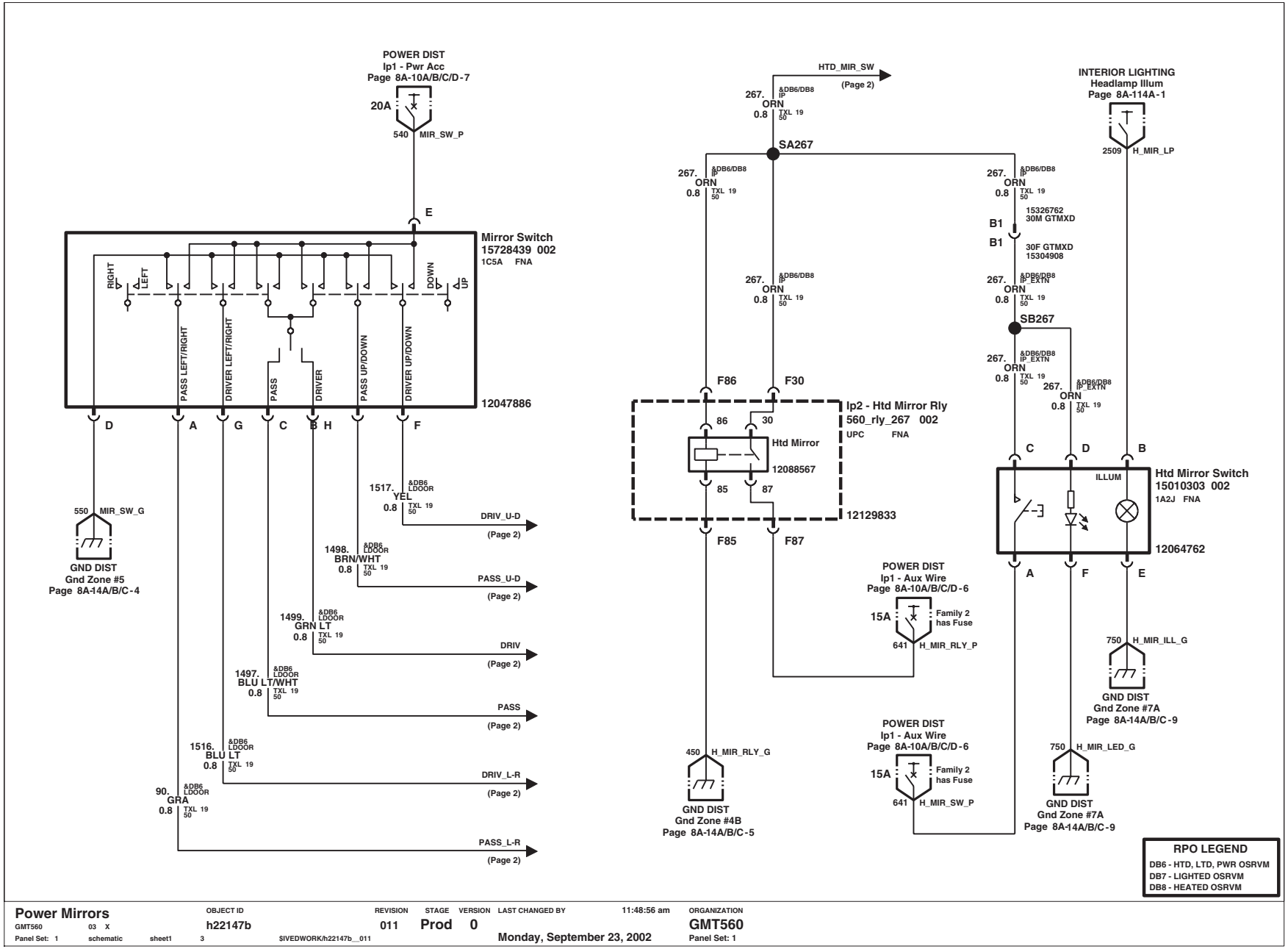
03 560 000	JG	PILOT B - INITIAL CREATION	21NO00	001
03 560 000	JG	Clarify Ports	21NO00	001



RPO LEGEND
AU0 - REMOTE KEYLESS ENTRY

Remote Keyless Entry	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY		ORGANIZATION
GMT560 03 X &AU0	h22132a	009	Prod	0	8:25:07 am		GMT560
Panel Set: 1 schematic sheet1 19	$IVEDWORK/h22132a__009				Tuesday, August 13, 2002		Panel Set: 1

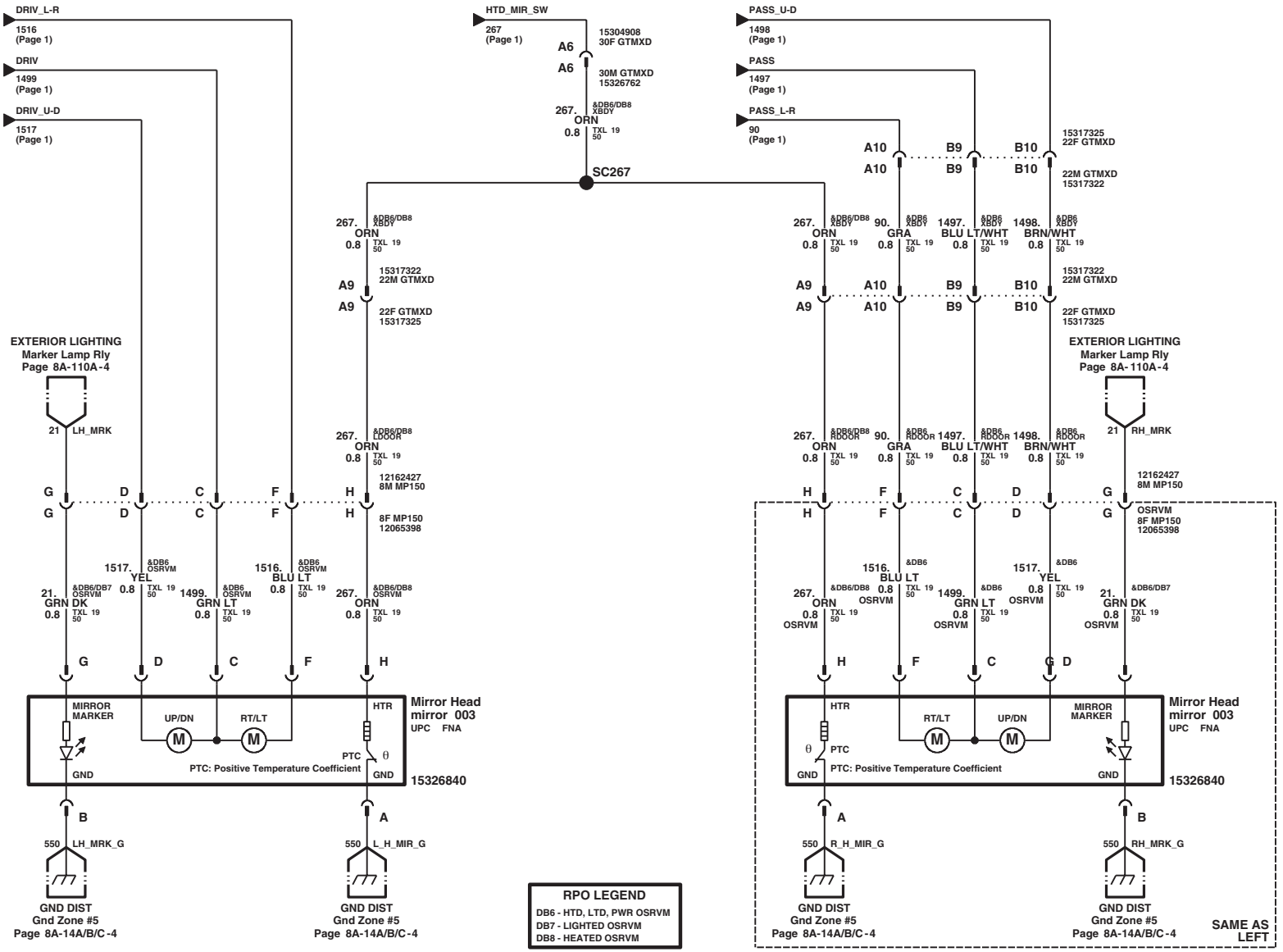
Power Mirrors



Power Mirrors	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY		ORGANIZATION
GMT560 03 X	h22147b	011	Prod	0		11:48:56 am	GMT560
Panel Set: 1 schematic sheet1 3	$IVEDWORK/h22147b__011				Monday, September 23, 2002		Panel Set: 1

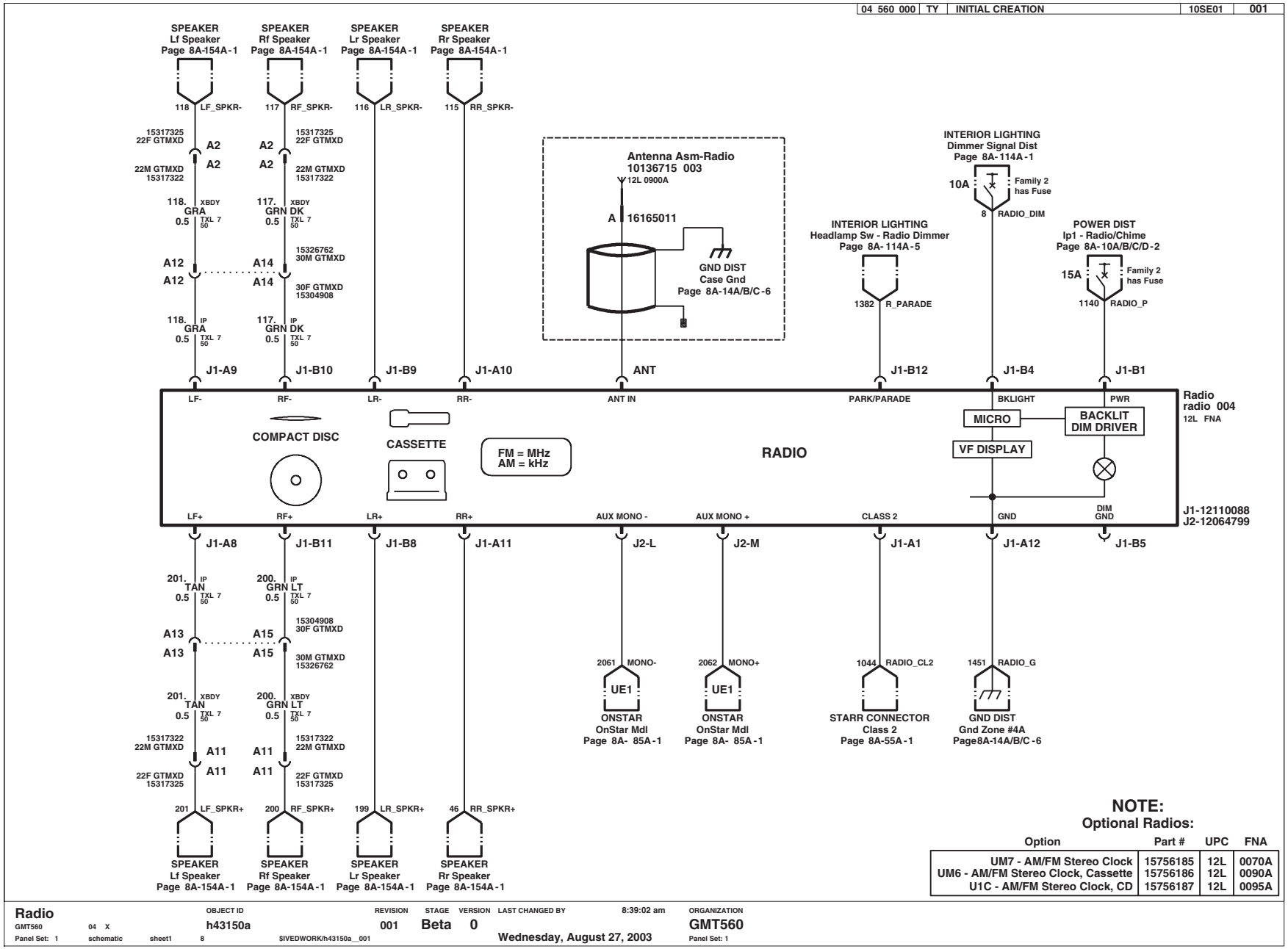
Power Mirrors

03 560 000	TY	PILOT B - INITIAL CREATION	27NO00	001
03 560 000	TY	ADDED FAM2 NOTE.	27NO00	001
03 560 1107	JG	Internally spliced mirror motor common	25SE01	001



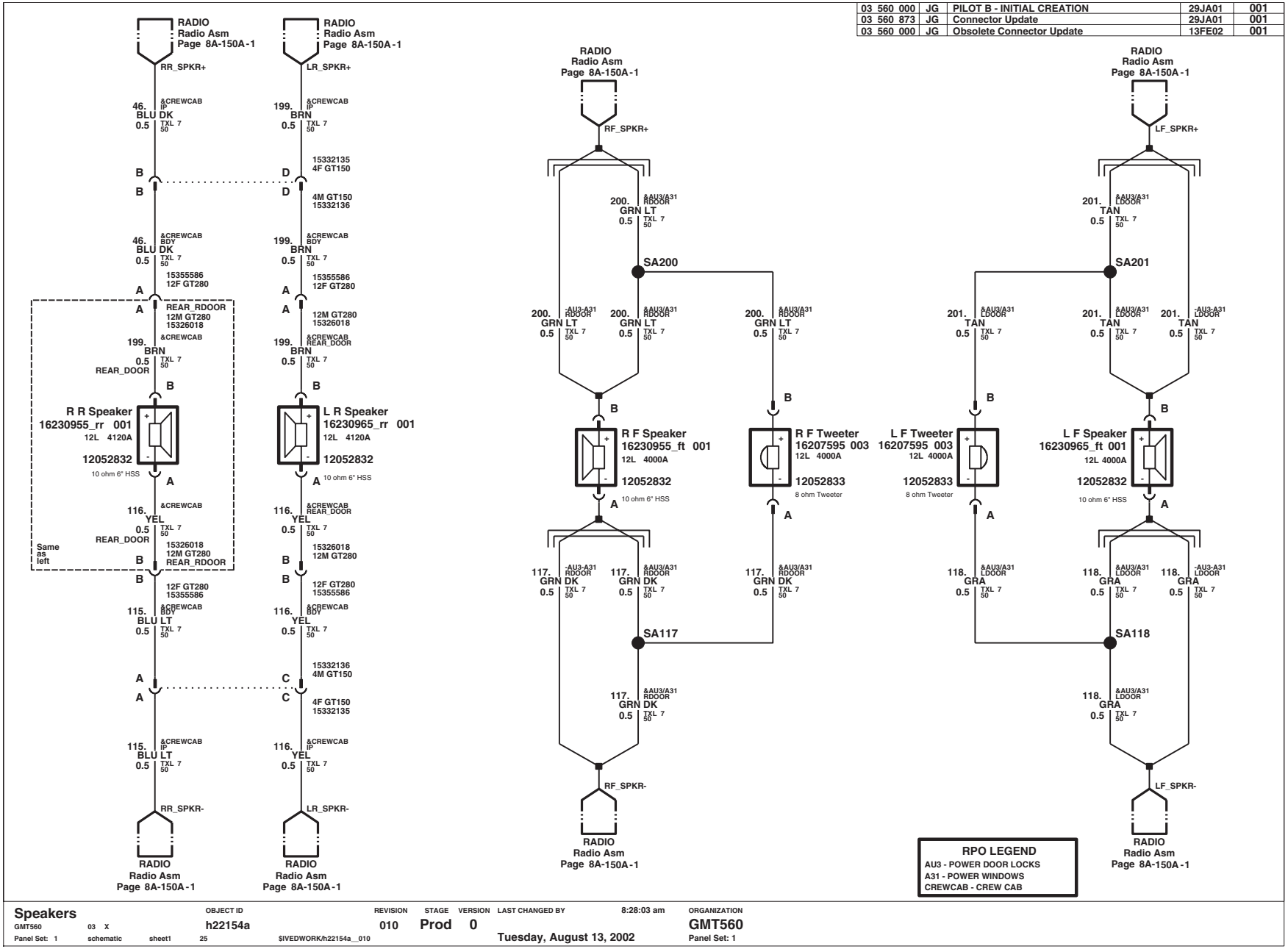
Power Mirrors
GMT560 03 X
Panel Set: 2 schematic sheet1 3
OBJECT ID h22147b
$IVEDWORK/h22147b__011
REVISION 011
STAGE Prod
VERSION 0
LAST CHANGED BY
11:48:56 am Monday, September 23, 2002
ORGANIZATION GMT560
Panel Set: 2

Entertainment — Radio



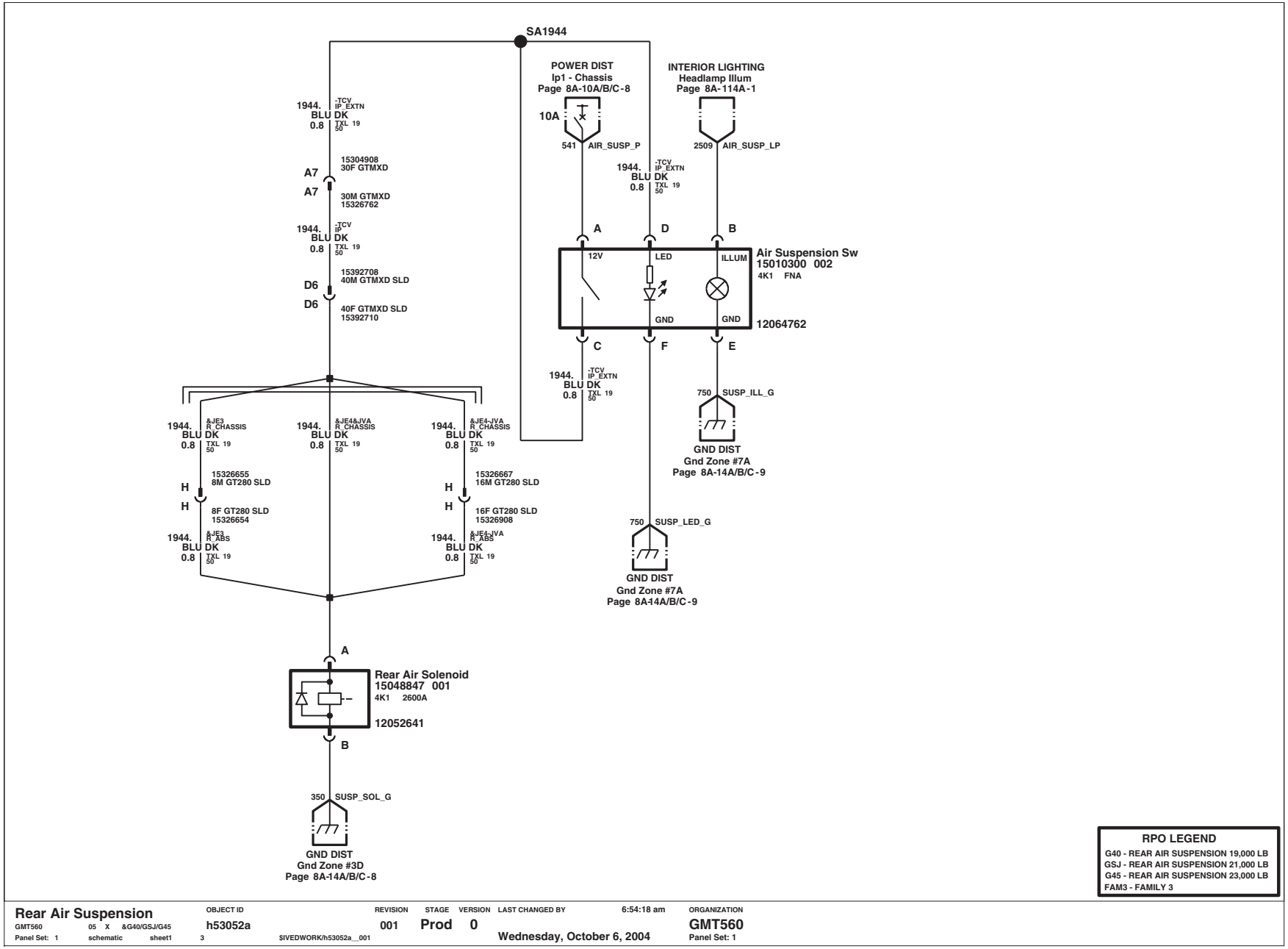
Entertainment — Speakers

03 560 000	JG	PILOT B - INITIAL CREATION	29JA01	001
03 560 873	JG	Connector Update	29JA01	001
03 560 000	JG	Obsolete Connector Update	13FE02	001


RADIO
Radio Asm
Page 8A-150A-1
RR_SPKR+
LR_SPKR+
RF_SPKR+
LF_SPKR+
RR_SPKR-
LR_SPKR-
RF_SPKR-
LF_SPKR-
46. BLU DK 0.5 TXL 7 50
199. BRN 0.5 TXL 7 50
200. GRN LT 0.5 TXL 7 50
201. TAN 0.5 TXL 7 50
115. BLU LT 0.5 TXL 7 50
116. YEL 0.5 TXL 7 50
117. GRN DK 0.5 TXL 7 50
118. GRA 0.5 TXL 7 50
&CREWCAB IP
&CREWCAB BDY
&CREWCAB REAR_DOOR
&AU3/A31 RDOOR
&AU3/A31 LDOOR
-AU3-A31 RDOOR
-AU3-A31 LDOOR
15332135 4F GT150
4M GT150 15332136
15355586 12F GT280
REAR_RDOOR 12M GT280 15326018
12F GT280 15355586
15332136 4M GT150
4F GT150 15332135
REAR_DOOR
Same as left
R R Speaker 16230955_rr 001 12L 4120A 12052832 10 ohm 6" HSS
L R Speaker 16230965_rr 001 12L 4120A 12052832 10 ohm 6" HSS
R F Speaker 16230955_ft 001 12L 4000A 12052832 10 ohm 6" HSS
R F Tweeter 16207595 003 12L 4000A 12052833 8 ohm Tweeter
L F Tweeter 16207595 003 12L 4000A 12052833 8 ohm Tweeter
L F Speaker 16230965_ft 001 12L 4000A 12052832 10 ohm 6" HSS
SA200
SA201
SA117
SA118
RPO LEGEND
AU3 - POWER DOOR LOCKS
A31 - POWER WINDOWS
CREWCAB - CREW CAB

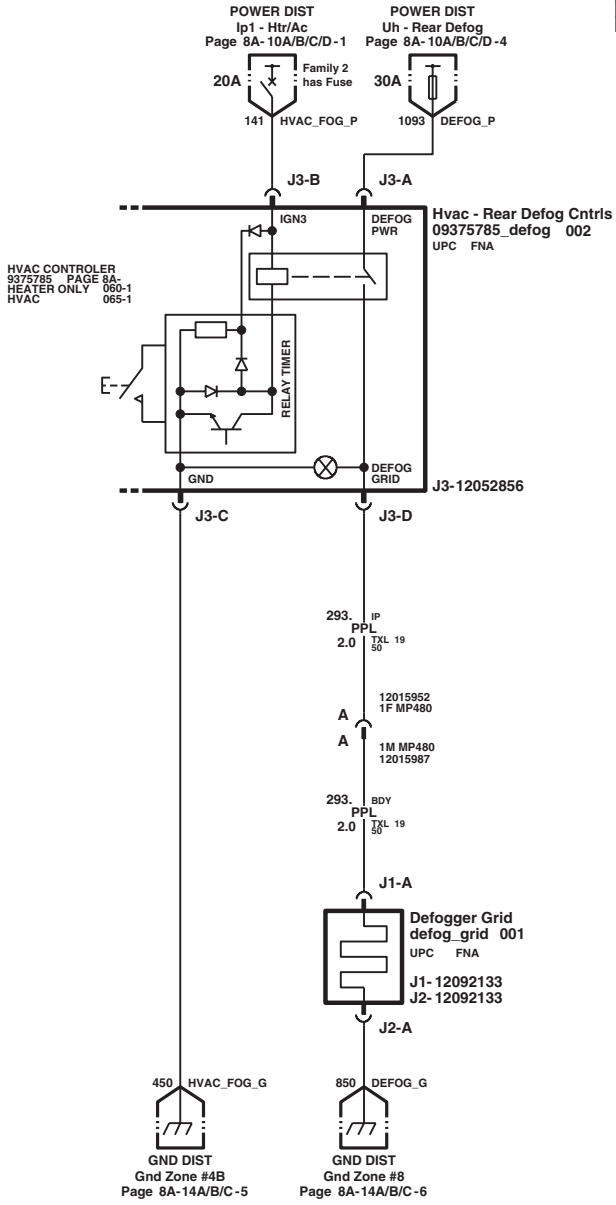
Speakers	OBJECT ID	REVISION	STAGE	VERSION	LAST CHANGED BY		ORGANIZATION
GMT560 03 X	h22154a	010	Prod	0		8:28:03 am	GMT560
Panel Set: 1 schematic sheet1 25	$IVEDWORK/h22154a__010				Tuesday, August 13, 2002		Panel Set: 1

Rear Air Suspension



Rear Defogger

03 560 000	TY	PILOT B - INITIAL CREATION	27NO00	001
03 560 818	JG	REPLACED CBs WITH MINI-FUSES & NOTE.	27NO00	001
03 560 000	JG	MADE CONNECTOR ON CNTL UNIT J3-	20JN01	001



Rear Defogger (Crew Cab)
GMT560 03 X &C49
Panel Set: 1 schematic sheet1 36 $IVEDWORK/h22061a__004

OBJECT ID h22061a
REVISION 004
STAGE Prod
VERSION 0
LAST CHANGED BY
Thursday, August 8, 2002
10:00:24 am
ORGANIZATION GMT560
Panel Set: 1